

MOVAT KIT

The kit contains:

Acetic acid, 0.5% solution Alcian Blue solution pH 2.5 Alkaline alcohol, solution Biebrich Scarlet-Acid Fuchsin reagent Ferri reagent, Verhoeff B Hematoxylin, Verhoeff A Iodine solution, Verhoeff C Orange G, 1% solution Phosphotungstic acid, 5% solution Reagent for differentiation, Verhoeff Sodium thiosulfate, 5 solution



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Trading name:	ACETIC ACID, 0.5% SOLUTION					
Product code:	OK05-OT-X**	Date of compilation:	23 Dec 2022	Version:	3	

1.1	Product identifier	Product identifier			
	Trading name:	ACETIC ACI	ACETIC ACID, 0.5% SOLUTION		
	Chemical name:	-	-		
	Catalogue number:	OK05-OT-X	(**		
1.2	Relevant identified use	Relevant identified uses of the substance o		nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	d Rescue Dire	ectorate:	112	
	Medical information:			-	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regi	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and catego	ory code:		Hazard statements*:		
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-	statements: see Sl	ECTION 16			
2.2	Label elements					
	Product identification:	ACETIC ACID, 0.	5% SOLUTION			
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	-				



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	Signal word: -
	Hazard statements: -
	Precautionary statements: -
	Supplemetal hazard
2.3	Other hazards
	The product has no other known specific hazards for human or environment.
	Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
64-19-7/ 200-580-7/ 607-002-00-6	-	0.5%	acetic acid, glacial 99%	Flam. Liq. 3; H226 Skin Corr. 1A; H314			

4.1	Description of first aid measures		
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.	
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.	
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.	
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.	
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.	
	Self-protection of the first aider:	-	



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	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
4.3	Indication of any immediate medical attention and special treatment needed		
	-		

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	water spray, dry powder, CO2 or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet.			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	no information available			
5.3	Advice for firefighters				
	Use a self-contained open-circuit co	ompressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated firefighting water separately. Do not extinguishing media.			

SECTIO	ON 6. Accidental release measures					
6.1	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).					
6.2	Environmental precautions:					
	Do not dispose of in sewage, dr Protection and Rescue Directora	ainage system and waterways. In case of large spillage contact National ate (NPRD) on 112.				
6.3	Methods and material for conta	inment and cleaning up				



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6.3.1.	Bunding, covering of drains; capping procedures: Sand protective barrier or barriers made of similar materials.					
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and involved materials with water.				
6.3.3.	Other information: Secure proper ventilation. Do not use incompatible materials (see Section 10).					
6.4	Reference to other sections					
	See Section 7 for information on safe handling.					
	See Section 8 for information	on personal protection equipment.				
	See Section 13 for disposal in	formation.				

SECTIO	N 7. Handling and storage			
7.1	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.	
	Measures to prevent aerosol and dust generation	Secure proper ventilation.		
	Measures to protect the environment.		Prevent spilling into the sewage system and waterways.	
	Other measures:		Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. The	h hands after work and before eating.		
7.2	Conditions for safe storage, including any incomp	oatibilities		
	Technical measures and storage conditions:	well ventila	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.	
	Packaging materials:	Manufacturer's original packaging. Keep away from food and drink. Keep the contai tightly closed.		
	Requirements for storage rooms and vessels:			
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper	



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	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Expos	ure contro	ols/perso	onal pr	otecti	ion				
8.1 Control pa	arameters								
				valu	es/short	exposure limit term values	Biological	imit values	
			10 7			om (2.0	mg/m ³		
Acetic acid		64	-19-7		10	/20	25/50	· · · · · · · · · · · · · · · · · · ·	-
Substance name:	_								
EC No:	-	CAS No	:	-					
DNEL									
					Indu	strial			
Route of Acute Acute exposure: effect local effect system				Chronic effect local			hronic t systemic		
Oral				-		-			
Inhalation				-		-			
Dermal	-		-			-		-	
Critical physical par	rameters: s	olubility,	flamm	ability	/, corrc	osivity:	-		
					Cons	sumer			
Route of exposure:AcuteAcuteeffect localeffect systemi					Chronic effect local	_	hronic t systemic		
Oral	-		-			-		-	
Inhalation	-	-			-		-		
Dermal	-		-			-		-	
PNEC									
Environmental protection target				P	PNEC				
Fresh water					n	no information available			
Freshwater sedime	nts				n	no information available			
Marine water							nation available		
Marine sediments					n	no inform	nation available		



Page 6 of 17 Trading name: **ACETIC ACID, 0.5% SOLUTION** Product code: OK05-OT-X** Date of compilation: 23 Dec 2022 Version: 3 Food chain no information available Microorganisms in sewage treatment no information available Soil (agricultural) no information available no information available Air 8.2 **Exposure** controls 8.2.1. Appropriate engineering controls Use the product in well ventilated rooms. Use personal Substance/mixture related measures to protective equipment. Do not eat, drink or smoke in the prevent exposure during identified uses: workspace. Structural measures to prevent In accordance with Section 7. exposure: Organisational measures to prevent Organization of work in order to reduce other worker's exposure: influence during work process. Secure proper workspace ventilation in order to keep Technical measures to prevent exposure: concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering. 8.2.2. Personal protection equipment Safety glasses that stick to face (EN 166) or visor in case of lower 8.2.2.1. Eye and face protection: levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air. 8.2.2.2 Skin protection The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Hand protection: Glove thickness: 0.40 mm Time until perforation: > 480 min During every day work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the Other skin protection: entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material. Protective full face mask (EN 136) or half mask (EN 140) equipped 8.2.2.3. with a filter for organic vapors, type "A" (boiling point >65°C) Respiratory protection: acording to EN 14387) used when concentration levels exceed GVI. 8.2.2.4. Thermal hazards: No information available 8.2.3. Environmental exposure controls Substance/mixture related See Section 6

measures to prevent exposure:



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Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

1	Information on basic physical and	chemical properties	nemical properties		
		Value	Method		
	Physical state:	liquid	No information available		
	Colour:	colourless	No information available		
	Odour/odour threshold:	mild acetic acid like/no information available	No information available		
	Melting point / freezing point:	No information available	No information available		
	 Boiling point or initial boiling point and boiling range: Flammability: Lover and upper explosion limit: Flash point: 	No information available	potentiometric measurement No information available		
		No information available			
		No information available	No information available		
		No information available	No information available		
	Auto-ignition temperature:	No information available	No information available		
	Decomposition temperature:	No information available	No information available		
	pH:	0.85 – 0.9	No information available		
	Kinematic viscosity:	No information available	No information available		
	Solubility:	No information available	No information available		
	Partition coefficient n- octanol/water (log value):	No information available	No information available		
	Vapour pressure:	No information available	No information available		
	Density and/or relative density:	No information available	No information available		
	Relative vapour density:	No information available	No information available		
	Particle characteristics:	No information available	No information available		

SECTION 10. Stability and reactivity					
10.1	1	Reactivity:	See subsections 10.3 through 10.5.		



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10.2 Chemical stability:		The product is chemically stable under standard ambient conditions of storing and using (room temperature).					
10.3	Possibility	of hazardous reactions:	No dangerous reactions known.				
10.4	Condition	s to avoid:	No information available				
10.5	Incompati	ble materials:	No information available	9			
10.6	Hazardou	s decomposition products:	No information available	9			

	oxicological info	classes as defined in	Regulation	(EC) No 1272	/2008		
Acute t				(,,	,		
Route of exposure:	Method	Species	Dose LD _s ATI		Exposure tir	ne	Results
Oral:	-	No information available	-		No informatior available	ו	-
Dermal:	-	No information available	-		No informatior available	ו	-
Inhalation:	-	No information available	-		No informatior available	ו	-
Specific	1	xicity – single expos	ure (STOT S				
		pecific effects		Target or	-		Note
Oral: No information available			No information available			-	
Dermal: No information available		tion available	No ir	formation av	ailable	-	
Inhalation:	No informa	tion available	No ir	formation av	ailable	-	
Aspirat	ion hazard:	No	information	available.			
Irritatio	on and corrosion						
	Expo	osure time	Species	Evaluation	n Method		Note
Skin corrosion/irritat	ion:	-		-	-	-	
Serious eye damage/irritatic	n -	-		-	-	-	
Sensitiz	ration						
Skin sensitizatio							
SKIII SEIISIUZALIO							



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Oral exposure:	Harmful if sv	vallowed.				
Dermal exposure	e: Harmful if at	sorbed throug	jh skin. May cau	se skin irritation	•	
Inhalation expos	ure: Harmful if in	haled. May cau	ise respiratory t	ract irritation.		
Eye exposure:	May cause e	ye irritation.				
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic	No information available	No information available	No information available	No information available	No information available	-



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Trading	g name:		ACE	TIC ACID, 0.5%	6 SOLUTION				
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Subacu		No information a			information available	-			
	te dermal	No information a			information available	-			
Subacute inhalation No information available		available	No	information available	-				
Subchronic oral No information available		available	No	information available	-				
Subchronic dermal No information available		available	No	information available	-				
Subchro	onic inhalat	tion No information a	available	No	information available	-			
Chronic	hronic oral No information available		available	No	information available	-			
Chronic dermal No information avail		available	No	information available	-				
Chronic inhalation No information availa		available	No	information available	-				
	CMR effe	cts (carcinogenicity; mut	agenicity; re	productive toxicit	ty)				
	Carcinoge	enicity:	Bas	Based on available data, the classification criteria are not met.					
	Mutagen	icity <i>in vitro</i> :	Bas	Based on available data, the classification criteria are not met.					
	Genotoxi	city:	Bas	Based on available data, the classification criteria are not met.					
	Mutagen	icity <i>in vivo</i> :	Bas	Based on available data, the classification criteria are not met.					
	Germ cell	mutagenicity:	Bas	Based on available data, the classification criteria are not met.					
	Reproduc	tive toxicity:	Bas	Based on available data, the classification criteria are not met.					
	1								
	Summary propertie		the CMR	Based on availal met.	ble data, the classificat	tion criteria are r	not		
11.2.	Informati	on on other hazards:							
11.2.1.		e disrupting properties:							
	Based or	a available data, does n e disruptors.	not contain	_					
11.2.2.		ormations:		· · · · · · · · · · · · · · · · · · ·					
	0								

SECTION 12. Ecological information						
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-



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Crustacea:		EC ₅₀	48 hours	No information available	No information available	No informa availabl		-
Algae/aquatic plants IC ₅₀ 4 days		No information available	No information available	No informa availabl		-		
Other organism	าร	-	-	-	-	-		-
Chronic (long-t toxicity	erm)	Dose	Exposur time	e Species	Method	Evaluat	tion	Note
Fish		LC ₅₀	96 hours	No information available	No information available	No informa availabl		-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No informa availabl		-
Algae/aquatic plants IC ₅₀ 72 hours		No information available	No information available	No informa availabl		-		
Other organism	IS	-	-	-	-	-		-
12.2 Persist	ence ai	nd degradab	ility					
Abioti	c degra	dation			1			
	De	gradation ha	lf-lives	Method	Evaluatio	n		Note
Marine water	No ir	nformation a	vailable	No information available	No informatio available	n .	-	
Fresh water	No ir	nformation a	vailable	No information available	No information available		-	
		information available		No information	No information -			
Air	No ir	iformation a	vailable	available	available	-	-	
Air Soil		nformation a			available No informatio available	n	-	
Soil	No ir	oformation a		available No information	No informatio	n -	-	
Soil Biodeg	No ir	nformation a	vailable	available No information available	No informatio available		-	
Soil	No ir gradatio	nformation ar on Time (d	vailable	available No information	No informatio	n -		Note



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12.3	Bioaccumu	ulative p	otential								
	Octanol-w	ater pa	rtition coeff	icient (log Kow)					
Valu	e Coi	ncentrat	tion p	H	°C	Me	ethod	Evalua	ation		Note
-	-		-			-		-		-	
	Bioconcen	tration	factor (BCF)								
V	alue		Species		١	Vethod		Evaluatio	on		Note
	rmation	No	inform	ation	No info		n	No information	on	-	
availabl	е	availat	ole		availab	le		available		_	
					1						
	Chronic ec	cotoxicit	y	-		1		Ĩ	1		1
	Value		Dose	-	osure ime	Spe	ecies	Method	Evalu	ation	Note
				No		No		No	No		
Chronic	toxicity on	fish	LC ₅₀	infor availa	mation able	inforr availa	nation ble	information available	inform availat		-
Chronic				No		No		No	No		
	toxicity on ea (<i>Daphnia</i>	')	EC ₅₀		mation		nation	information	inform		-
	× 1			avail	able	availa	ble	available	availat	le	
12.4	Mobility in			<u> </u>	<u> </u>	<u> </u>					
		•	ed distributi	on in e	environm	nental c	ompart	ments:			
	No inform		/ailable								
	Surface te	nsion:									
	Value		°C	C	oncentra	ition		Method			Note
	No informatio	No Inf	ormation	No	informa	tion	No inf	ormation	-		
	available		ailable	ava	ailable		availat	ole	_		
		<u>i</u>		i					L		
	Adsorptio	n / desc	orption								
	•										



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Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-water	No information available	No informati on available	No information available	No information available	-
Water-air	No information available	No informati on available	No information available	No information available	-
Soil-air	No information available	No informati on available	No information available	No information available	-

12.5	Results of PBT and vPvB assessment
	Based on available data, the product does not contain any PBT or vPvB substances.
12.6.	Endocrine disrupting properties
	Based on available data, does not contain endocrine disruptors.
12.7.	Other adverse effects
	No information available
SECTIO	N 13. Disposal considerations
13.1	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	15 01 10*: Packaging that contains residual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevant information:
	No information available



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13.1.4.	Sewage disposal – releva	nt information:					
	Waste must not be dispo	sed of into the sewage system.					
13.1.5.	Other disposal recommer	ndations:					
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.						
13.1.6.	1.6. Relevant Community provisions:						
	-						
SECTIO	N 14 TRANSPORT INFORM	IATION					
	Transporting/shipment by r	oad (ADR)					
UN num	ber:	Not subject to transport regulations					
UN prop	per shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environr	mentally hazardous:	-					
Special p	precautions for user:	-					
	Transporting/shipment by r	rail (RID)					
UN num	ber:	Not subject to transport regulations					
UN prop	per shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environr	mentally hazardous:	-					
Special p	precautions for user:	-					
	Inland waterway transport (ADN)					
UN num	ber:	Not subject to transport regulations					
UN prop	per shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environr	mentally hazardous:	-					
Special p	precautions for user:	-					
	Transporting/shipment by s	sea (IMDG)					
UN num	ıber:	Not subject to transport regulations					
UN prop	per shipping name:	-					
Transpo	rt hazard class(es):	-					



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Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTIO	SECTION 15. Regulatory information						
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations						
	Authorization and/or restrictions of use						
	Authorizations: -						
	Restrictions:	-					



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15.2	None	nent
15.2	National legislation: Chemical safety assessr	substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
	Information according guideline)	1999/13/EC about limitation of emissions of volatile organic compounds (VOC- Chemicals Act, Regulation on classification, packaging and labeling of dangerous
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
		COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
		Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;
	Other EU regulations:	Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;
		1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;
		Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive

SECTIO	SECTION 16. Other information					
16.1	Indication of changes:	-				
16.2	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 				



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Trading name:	ACETIC ACID, 0.5% SOLUTION						
Product code:	OK05-OT-X**	Date of compilation:	23 Dec 2022	Version:	3		

16.3.		erature references and e of data:	-
16.4.		ication and procedure 2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classific	cation		Classification procedure
-			-
16.5.	Relevant H statements (number and full text)		
	2	26	Flammable liquid and vapour.
	H: 3	14	Causes severe skin burns and eye damage.
16.6.	Trainin	ng advice:	-
			** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Further information:		We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario resulting to chemical safety assessment



Page 1 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5						
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 6			

SECTI	ON 1: Identification of t	he subst	ance/mixture	and of the company/undertaking	
1.1.	Product identifier	Product identifier			
	Trading name:	ALCIAN	N BLUE SOLUTIC	N pH 2.5	
	Chemical name:	-			
	Catalogue number:	AB2-O	T-X**		
1.2.	Relevant identified use	s of the	substance or mi	xture and uses advised against	
	Uses:		For staining ac	id mucopolysaccharides of intestinal goblet cells.	
	Uses advised against:		Only the ident	ified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection an	d Rescue	e Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or	mixture			
2.1.1.	Classification according to Regula	tion (EC) No 12	272/2008 (CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous subst	ance.	-		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	tements: see S	ection 16		
2.2.	Label elements				
	Product identification:	ALCIAN BLUE	SOLUTION pH 2.5		
	Identification number:	-			
	Authorization no.: -				
	Hazard pictograms:	-			



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Trading name:	ALCIAN BLUE SOLUTION pH 2.5					
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 6		

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	Endocrine Disrupting Proper	rties:
	No known endocrine disruptir	ng properties
	Results of PBT and vPvB ass PBT or a vPvB.	essment: According to the results of its assessment, this substance is not a

SECTION 3. Co	mposition/inform	ation on ingredients	5	
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
64-19-7/ 200-580-7/ 607-002-00-6	-	≤ 3%	Acetic acid, 99.5%	Flam. Liq. 3; H226 Skin Corr. 1 A; H314

SECTI	ON 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:		-		
	Following inhalation:		No information available		
	Following eye contact:		No information available No information available No information available		
	Self-protection of the first	aider:	Treat symptomatically.		
4.2.	Most important symptoms and effects, both acute and delayed				
	Following inhalation:	No i	information available		
	Following skin contact:	No i	information available		
	Following eye contact:	No i	information available		
	Following ingestion:	No i	information available		
4.3.	Indication of any immedia	te medi	cal attention and special treatment needed		
	-				

SECTIO	N 5 Firefighting measures
5.1.	Extinguishing media



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Trading name:		ALCIAN BLUE SOLU	TION pH 2.5		
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam
	Unsuitable extinguishing media:	water jet
5.2.	Special hazards arising from the su	ubstance or mixture
	Hazardous combustion products:	No information available
5.3.	Advice for firefighters	
	Use a self-contained open-circuit Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. fire with water spray or vapor.
5.4.	Additional information	
	Remove sources of heat and igniti Do not contaminate the environm	

SECTIC	ON 6. Accidental release meas	ures		
6.1.	Personal precautions, protect	ive equipment and emergency procedures		
6.1.1.	For non-emergency personne	91		
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Wear protective equipment (see Section 8).			
6.2.	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and material for cor	ntainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	-		
6.4.	Reference to other sections			



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Trading name:		ALCIAN BLUE SOLU	TION pH 2.5		
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment. See Section 13 for information about containment.

SECTIC	DN 7. Handling and storage	
7.1.	Precautions for safe handling	
7.1.1.	Protection measures	
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.
7.1.2.	Advice on general occupational hygiene:	
	Do not eat, drink or smoke in the workspace. T	horoughly wash hands after work and before eating.
7.2.	Conditions for safe storage, including any inco	mpatibilities
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.
	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTIO	SECTION 8. Exposure controls/personal protection						
8.1.	Control parameters						
	Substance	CAS No	Occupational values/short	exposure limit term values	Biological limit values		
			ppm	mg/m ³	-		



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Trading na	name: AL				ALCI/	LCIAN BLUE SOLUTION pH 2.5					
Product co	de:	AB10-0	T-X**		Date c	of compila	tion:	21 De	c 2022	Version:	6
				:				:			
-			-			-		-	No informa	ation availabl	e
Substance name:	-										
EC No:	-		CAS No:	-							
DNEL											
					Inc	dustrial					
Route of		A	cute		Acut	e		Chror	nic	Chro	nic
-		ect local	e	ffect sys	temic		effect l	ocal	effect sy	stemic	
Oral	Oral -		-			-			-		
Inhalation		-		-			-			-	
Dermal		-		-			-			-	
Critical physical parameters: solubility, flammability, corrosivity: -											
		_			Co	nsumer					
Route of Acute			Acute		Chronic			Chronic			
exposure:		effe	ect local	effect sys		temic	c effect local		ocal	effect sy	stemic
Oral		-		-	-		-		-		
Inhalation		-		-			-			-	
Dermal		-		-			-			-	
PNEC						1					
Environmen	tal prote	ection targ	get			PNEC					
Fresh water						No information available					
Freshwater s	sedimen	ts				No information available					
Marine wate	er					No information available					
Marine sedi	ments					No inform	mation	availabl	e		
Food chain						No inform	mation	availabl	е		
Microorgani	sms in s	ewage tre	eatment			No inform	mation	availabl	е		
Soil (agricult	tural)					No inform	mation	availabl	е		
Air						No inform	mation	availabl	е		
8.2.	Exposu	re contro	S								
8.2.1.	Approp	riate eng	ineering cor	ntrols							
	measur		re related /ent exposu uses:	re		•				e personal pr e workspace.	otective
	Structu exposu		res to preve	ent	No info	ormation av	ailable	Э			



SAFETY DATA SHEET BIOGNOST[®] According to Regulation (EC) No. 1907/2006 amended by Regulation (FU) No. 2020/878

						Page 6 d	0110		
Trading name:			ALCIAN BLUE SOLUTION pH 2.5						
Product	Product code: AB10-OT-X**			Date of compilation:	21 Dec 2022	Version:	6		
		nisational measures nt exposure:	to	Organization of work in during work process.	order to reduce ot	ner worker's ir	Ifluence		
	Techr expos	nical measures to pr sure:	event	Secure proper workspac concentration levels in a		•			
8.2.2.	Perso	nal protection equi	oment						
8.2.2.1.	Eye aı	nd face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.					
8.2.2.2.	Skin p	protection							
				tective gloves must be according to the EU Directive 2016/425/EEC and indard EN 374.					
	Hand	Hand protection:		Glove material: nitrile rubber					
				Glove thickness: ≥0.50 mm Break through time: >480 min					
	Other	skin protection:		ar antistatic clothing made of natural fibers (such as cotton) with long eves (EN 13034), and shoes that cover the entire foot (EN 10335).					
8.2.2.3.	Respi	ratory protection:	filter fo	tive full face mask (EN 136 or organic vapors, type "A) used when concentratior	" (boiling point >65	5°C) acording			
8.2.2.4.	Thern	nal hazards:	No inf	ormation available					
8.2.3.	Enviro	onmental exposure	controls						
		ance/mixture relate ures to prevent exp		See Section 6					
	Struct expos	tural measures to pr sure:	revent	Use modern equipment.					

enpeseirei	
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

SECTI	SECTION 9. Physical and chemical properties						
9.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Colour:	blue	No information available				
	Odour/odour threshold:	acetic acid like/no information available	No information available				
	Melting point / freezing point:	No information available	No information available				
	Boiling point or initial boiling point and boiling range:	No information available	No information available				



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Trading name:	ALCIAN BLUE SOLUTION pH 2.5							
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 6				

9.2.	Other information		
	Particle characteristics:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Solubility:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	pH:	2.45 -2.55	No information available
	Decomposition temperature:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Flash point:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flammability:	No information available	No information available

SECTIO	SECTION 10. Stability and reactivity					
10.1.	Reactivity:	See subsections 10.3 through 10.5.				
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.				
10.3.	Possibility of hazardous reactions:	No information available.				
10.4.	Conditions to avoid:	No information available.				
10.5.	Incompatible materials:	No information available.				
10.6.	Hazardous decomposition products:	No information available.				

SECTION 11. Toxicological information									
11.1. Informatio	Information on toxicological effects								
Acute toxi	Acute toxicity:								
Route of exposure:	Method	Species	ecies LD ₅₀ /LC ₅₀ or ATE _{mixture}		Results				
Oral exposure:	No information available	-	LD ₅₀	-	-				
Dermal exposure:	No information available	-	LD ₅₀	-	-				



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							Pag	e 8 of 16	
Trading name:			Α	LCIAN BLUE	OLUTION	рН 2.5			
Product code:	AB10-OT-	-X**	Date of compilation:		ion: 21 [: 21 Dec 2022 \		Version: 6	
Inhalation exposure:	No inforr availa		-		LC ₅₀	-		-	
Specific	target organ t	oxicity – sing	le expc	osure (STOT SE):					
		Specific effe	ects		Target org	an		Note	
Oral exposure:	No in	formation ava	ailable	No infor	mation avai	able	-		
Dermal exposure	e: No in	formation ava	ailable	No infor	mation avai	able	-		
Inhalation expos	ure: No in	formation ava	ailable	No infor	mation avai	able	-		
Respira	tory irritation:		Ν	o information a	vailable				
Irritatio	n and corrosion	า							
	Exposure	e time	Specie	es Eva	luation	Method		Note	
Skin irritation:	-	-		-		-	-		
Eye irritation:	-	-		-		-	-		
Sensitiz	ation								
Dermal exposure	e: No inform	ation availab	le						
Inhalation exposure:	No inform	ation availab	le						
Sympto	ms related to t	he physical, c	chemica	al and toxicolog	ical charact	eristics			
Oral exposure:	No inform	ation availabl	е						
Dermal exposure	e: No inform	ation availabl	е						
Inhalation exposure:	No inform	ation availabl	e						
Eye exposure:	No inform	ation availabl	e						
Repeate	ed dose toxicity	/ (subacute, s	ubchro	onic, chronic)					
	Dose	Exposı time	ure	Species	Method	Evaluatior	1	Note	
Subacute oral	No informa available	tion No inform availab		No information available	No informatio n availabl	availahlo	nation	-	
Subacute dermal	No informa available	tion No inform availab		No information available	No informatio n availabl	available	nation	-	



Chronic dermal

Chronic inhalation

SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading name:	ALCIAN BLUE SOLUTION pH 2.5							
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version:	6			

Subacute inhalation	No i availa	information ble	No information available		rmation lable	No informatio n available	No infor available		-
Subchronic oral	No i availa	information ble	No information available		rmation lable	No informatio n available	No infor available		-
Subchronic dermal	No i availa	information ble	No information available		rmation lable	No informatio n available	No infor available		-
Subchronic inhalation	No information available		No information available	No information available		No informatio n available	No infor available		-
Chronic oral	No information available		No information available	No information available		No informatio n available	No infor available		-
Chronic dermal	No information available		No information available	No information available		No informatio n available	No infor available		-
Chronic inhalation	No i availa	information ble	No information available		rmation lable	No informatio n available	No infor available		-
Coocific	taraat	organ tavisit	y – repeated e	VDOCU		25).			
Specific	larget		cific effects	xposu		Target organ			Note
Subacute oral		•	tion available		No infor	ormation available -		-	
Subacute dermal		No informa	tion available		No infor	mation availab	le	-	
Subacute inhalation No informa			tion available		No information available		-		
Subchronic oral No informa			tion available		No information available		-		
Subchronic derm	No informa	tion available		No information available -		-			
Subchronic inhal	ation	No informa	tion available		No infor	mation availab	le	-	
Chronic oral		No informa	tion available		No infor	mation availab	le	-	

CMR effects (carcinogenici	ty, mutagenicity, reproductive toxicity)
Carcinogenicity:	No information available
Mutagenicity in-vitro:	No information available
Genotoxicity:	No information available
Mutagenicity in-vivo:	No information available

No information available

No information available

-

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No information available

No information available



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						Page 10 0			
Trading	g name:			ALCIAN BLUE SOLU	TION pH 2.5				
Product code: A		AB10-OT-X**		Date of compilation:	21 Dec 2022	Version:	6		
	Germ cell	mutagenicity:	No inf	ormation available					
	Reproduct	ive toxicity:	No inf	ormation available					
	Summary	of evaluation of the C	CMR pro	perties: -					
11.2	Informatio	rmation on other hazards:							
11.2.1.	Endocrine	disrupting properties	s:						
		stance/mixture do components conside							
		ocrine disrupting pr							
		to REACH Article	•						
		on Delegated regulat							
) or Commission Re 8/605 at levels of 1	0						
	higher.		0.170 0	1					
11.2.2.	Other info	rmations:							
	-								

SECTION 12. Ecological information									
12.1. Toxicity									
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC ₅₀	96 hours	No information available	No information available	-	-			
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-			
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-			
Microorganisms	LC ₅₀	72 hours	-	-	-	-			
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC ₅₀	96 hours	No information available	No information available	-	-			
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-			



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Trading name: ALCIAN BLUE SOLUTION pH 2.5										
Product cod	e:	AB10-OT-X*	*		Date of compila	tion:	21 Dec	2022	Version:	6
Algae/aquation plants	Algae/aquatic plants IC ₅₀ 72 hours		No information available		ormation ilable		-			
Other organis	sms	-	-		-	-		-	-	
-		:	1		1	1		1	:	
12.2. Persi	stenc	e and degradab	oility							
Abio	tic de	gradation								
	Ľ	Degradation hal	f-lives		Method		I	Evaluatio	n	Note
Marine water	No	information av	ailable	Nc	o information availa	able	No inform	ation ava	ailable	-
Fresh water	No	information av	ailable	Nc	information availa	able	No inform	ation ava	ailable	-
Air	No	information av	ailable	Nc	information availa	able	No inform	ation ava	ailable	-
Soil	No	information av	ailable	Nc	information availa	able	No inform	ation ava	ailable	-
		lation								
% Degradation		Time (days			Method				Not	
No information available		No inforr available	nation				No information No information available		on	
12.3. Bioa	cum	ulative potentia	1							
		oefficient: n-oc		ater (l	og Kow).					
Value		ncentration	pH	°(-		Evalua	ation	N	ote
-	No availa	information	-	-	No information available		No information available			
Bioc	oncer	itration factor (I	RCE)							
Value	oncen	Species			Method		Evaluati	on	N	ote
No informatio available	on	No inform available		No in availa	formation		o informatic vailable		No inform available	
Chro	onic ec	cotoxicity	ł			1				



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Trading r	name:			ALC	CIAN E	BLUE S	OLU [.]	TION pH	2.5		
Product o	ode:	AB10	-OT-X**	Date	of co	mpilati	on:	21 Dec	2022	Versio	n: 6
	Value		Dose	Exposure time	Spe	ecies	N	lethod	Evaluat	ion	Note
Chronic to	oxicity on	fish	LC ₅₀	No information available	No inforr availa	mation able		rmation ilable	No inform available	ation	-
Chronic to crustacea	•)	EC ₅₀	No information available	No inforr availa	mation able		ormation ilable	No inform available	ation	-
	1obility ir nown or		ed distributi	on in environm	ental c	compart	ment	S:			
N	lo inform	ation a	vailable								
S	urface te	nsion:				1			T		
	Value		°C	Concentra	tion		I	Method		1	lote
ir	NoNoinformationinformatiavailableavailable		ormation	No information available		n No information available		able ·	-		
A	dsorptio		•								
Transport		/D coet enry's c	fficient onstant	log Kow		Evapora	ation	rate	Method		Note
Soil-water	No availa		nformation	No information available		n No information available		ו	No information available	-	
Water-air	No availa		nformation	No informatic available		n No information available		ו	No information available	-	
Soil-air No infor available		nformation	No informatic available		o inform ailable	atior	ו	No information available	-		
10 5 -											
			d vPvB asses			oto ocr-	idare	d to have	ondoaria	diamatic	a proneut
a	ccording	to REA	CH Article 5	not contain con 7(f) or Commiss evels of 0.1% o	sion De	elegated				•	• • •
10.0 -											
12.6. E	ndocrine	disrupt	ing propert	es							



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					Page 13	51 10	
Trading	name:		ALCIAN BLUE SOLU	TION pH 2.5			
Product	code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	
	according		contain components considere) or Commission Delegated reg els of 0.1% or higher.			•	
12.7.	Other adv	erse effects					
	No inform	ation available					
		osal considerations					
13.1.	Waste tr	eatment methods					
13.1.1.	Product/	/Packaging disposal:					
	Submit f Protectio		al person authorized by the Mir	nistry of Environme	ntal and Natu	re	
13.1.2.	Waste co	odes/waste designatic	ns according to Law:				
	No infor	mation available					
13.1.3.	Waste tr	eatment – relevant inf	ormation:				
	No infor	mation available					
13.1.4.	Sewage	disposal – relevant inf	ormation				
		•	of into the sewage system.				
13.1.5.		sposal recommendation					
	authoriz the pack	ed by the ministry in c	's remains into the sewage syst harge. Do not dispose of the p s authorized by the ministry in a	ackaging into the s	ewage system	. Submit	
13.1.6.	Relevant Community provisions:						
	-						
SECTION	114 Trop	sport information					
		ng/shipment by road	(ADR)				
UN numl	•	<u> </u>	Not subject to transport regu	llations.			
	er shipping	g name:	-	-			
•	t hazard cl		-				
Packing			-				



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Trading name:			ALCIAN BLUE SOLUTION pH 2.5					
Product code:	AB10-OT-X**		Date of compilation:	21 Dec 2022	Version:	6		
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Transporti	ng/shipment by rail (RID)						
UN number:		No	t subject to transport regu	lations.				
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Inland wat	erway transport (ADI	N)						
UN number:		No	t subject to transport regu	lations.				
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Transporti	ng/shipment by sea	(IMDG)					
UN number:		No	t subject to transport regu	lations.				
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Transporti	ng/shipment by air (l	CAO-	ΓΙ/IATA-DGR)					
UN number:		No	t subject to transport regu	lations.				
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Further information	n: –							

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



AB10-OT-X**

SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading name: Product code:

Data of com

Date of compilation: 21 Dec 2022

ALCIAN BLUE SOLUTION pH 2.5

Version: 6

	EU regulations	
	Authorization and/or restr	ictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 199 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessmer	nt
	None	

SECTIC	N 16. Other information	
16.1.	Indication of changes:	-



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Trading name:			ALCIAN BLUE SOLUTION pH 2.5						
Product code: AB10-OT-X**			Date of compilation: 21 Dec 2022 Version: 6						
16.2. Abbreviations and acronyms:			ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative						
16.3.	Key literat source of	ure references and data:	-						
16.4.	Classificat 1272/2008	•	sed to derive the classification for mixture according to Regulation (EC)						
Classifi	ication	(Classification procedure						
-		-	-						
16.5.	Relevant H	H statements (numbe	er and full text)						
	H: 226		Flamamble liquid and vapour.						
	314	(Causes severe skin burns and eye damage.						
16.6.	Training a	dvice:	-						
16.7.	Further in	formation:	 ** "X" in the product code marks different volumes (different packagin the product) We are not responsible for consequences in case of failure to comply instructions for use or improper use of the product described in this material safety data sheet. 						

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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Trading name:					
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3

1.1	Product identifier					
	Trading name:	ALKALINE A	LCOHOL,	LCOHOL, SOLUTION		
	Chemical name:	-				
	Catalogue number:	ALA-OT-X*	ł			
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against		
	Uses:		For use	with Movat kit.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection an	National Protection and Rescue Dire		112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification							
2.1	Classification of the substance or mixture							
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)							
	Hazard class and ca	tegory code:		Hazard statements*:				
	Flam. Liq. 2		H225					
	Skin Irr. 2		H315					
	Eye Irr. 2		H319					
2.1.2.	Additional information							
	-							
*For ful	I text of Hazard- and EU Hazar	d-statements: see	SECTION 16					
2.2	Label elements							
	Product identification:	ALKALINE ALC	OHOL, SOLUTION					
	Identification number:	-						



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Trading name:		ALKALINE ALCOH	IOL, SOLUTION		
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3

	Authorization number:	-
	Hazard pictograms:	GHS02 GHS07
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vaporH315 Causes skin irritation.H319 Causes serious eye irritation.
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope No known endocrine disrupti Results of PBT and vPvB ass PBT or a vPvB.	

SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- xxxx	70 - 90 %	ethanol	Flam. Liq. 2; H225
1336-21-6/ 215-647-6/ 007-001-01-2	-	9 - 10 %	ammonia	Skin Corr. 1B; H314 Aquatic Acute 1; H400

SECTION 4. First aid measures



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Trading name:	ALKALINE ALCOHOL, SOLUTION										
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3						

4.1	Description of first aid measures	•						
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.						
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.						
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.						
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.						
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.						
	Self-protection of the first aider:	-						
4.2	Most important symptoms and effects, both acute and delayed							
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.						
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.						
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.						
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.						
4.3	Indication of any immediate medi	cal attention and special treatment needed						

SECTIO	SECTION 5. Firefighting measures						
5.1	Extinguishing media						
	Suitable outinguishing modia:	Small fire - water spray, dry powder, CO ₂					
	Suitable extinguishing media:	Large fire - water spray or alcohol resistant foam					
	Unsuitable extinguishing media:	Water with full jet					
5.2	Special hazards arising from the su	ubstance or mixture					
	Hazardous combustion products:	Formation of toxic gases is possible during heating or in case of fire.					
5.3	Advice for firefighters						
	Use a self-contained open-circuit of	compressed air breathing apparatus and fireproof clothing.					



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Trading name:	ALKALINE ALCOHOL, SOLUTION								
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3				

5.4	Additional information
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not
	contaminate the environment with extinguishing media.

SECTIO	ON 6. Accidental release measu	res					
6.1	Personal precautions, protective equipment and emergency procedures						
6.1.1.	For non-emergency personnel						
	Protective equipment:	Use personal protective equipment (see Section 8).					
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.					
6.1.2.	Emergency procedures:	Mark the area using proper signs.					
	For emergency responders:						
Use protective equipment; in case of inadequate ventilation use adequate airways protective (see Section 8).							
6.2	Environmental precautions:						
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Protection and Rescue Directorate (NPRD) on 112.						
6.3	Methods and material for conta	inment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.					
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.					
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).					
6.4	Reference to other sections						
	See Section 7 for information of	n safe handling.					
	See Section 8 for information on personal protection equipment.						
	See Section 13 for disposal info	rmation.					

SECTIO	SECTION 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					



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Trading name:			ALKALI		HOL, SOLUTION	Page 5 of 17		
	ict code:	ALA-OT-X** Revision date:			22 Dec 2022	Version:	3	
	Measures	to prevent fire:		Use in well ventilated storage rooms. I away from sources of ignition and hea not use tools that cause sparks. Do no smoke.				
	Measures	to prevent aerosol and	dust generatior	ו:	Secure proper ven	tilation.		
	Measures	to protect the environr	ment:		Prevent spilling int and waterways.	o the sewage syste	m	
	Other me	asures:			Protect against ele	ctrostatic charges.		
7.1.2.	Advice on	general occupational h	nygiene:					
	Do not ea	t, drink or smoke in the	e workspace. The	oroughly v	vash hands after work	and before eating.		
7.2	Conditions for safe storage, including any incompatibilities							
	Technical	measures and storage	conditions:	well v rangir	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.			
	Packaging	g materials:		Manufacturer's original packaging. Keep away from food and drink. Keep the containers tightly closed.				
	Requirem	ents for storage rooms	and vessels:					
	Advices for storage equipment:			The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further in	formation on storage c	onditions:	room other	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).			
7.3	Specific e	nd use(s)						
	Recomme	endations:		-				
	Industrial	sector specific solution	s:	-				

SECTION 8. Exposure controls/personal protection								
8.1 Control parameters								
Substance	CAS No		exposure limit t term values		Biological limit values			
		ppm	mg/m ³					
Ethanol	64-17-5	1000/-	1900/-	-				
Ammonia	1336-21-6	20/50	14/36	-				
		·		•				
Substance name: -								



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Trading name: ALKALINE ALCOHOL, SOLUTION						
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3	

EC No:		-	CAS No:		-					
DNEL			•				·			
					In	dustri	ial			
Route of exposure			ute t local	ef	Acute fect syster	nic			nronic ect local	Chronic effect systemic
Oral		-		-			-			-
Inhalatior	ı	1900 mg, (ethanol)	/ m ³	-			-			380 mg/m ³ (ethanol)
Dermal		-		-			-			343 mg/kg (ethanol)
Critical pl	nysical par	ameters: s	olubility, fla	amm	ability, co	rrosivi	ty:		-	
		-			Co	onsum	er			
Route of		A	cute		Acute			-	nronic	Chronic
exposure	:	effec	t local	ef	fect syster	nic	(effe	ect local	effect systemic
Oral		-		-			-			87 mg/kg bw/day (ethanol)
Inhalatior	ı	950 mg, (ethano		-			-			114 mg/m ³ (ethanol)
Dermal		-		-			-			206 mg/kg (ethanol)
PNEC						-				
Environm	ental prot	ection tar	get			PNE	с			
Fresh wat	er					0.96 mg/l (ethanol)				
Freshwate	er sedimei	nts				3.6 mg/kg (ethanol)				
Marine w	ater					0.79 mg/l (ethanol)				
Marine se	ediments					2.9 n	ng/kg (eth	anol)	
Food cha	in					380-720 mg/kg (ethanol)				
Microorg	anisms in	sewage tr	eatment			500 mg/l (ethanol)				
Soil (agrio	cultural)					0.63 mg/kg (ethanol)				
Air						no information available				
8.2	Exposu	ure contro	S							
8.2.1.	Appro	priate eng	ineering co	ntro	ls					
			re related r e during ide			Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structı exposı		res to prev	ent		In accordance with Section 7.				



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Trading name:	ALKALINE ALCOHOL, SOLUTION							
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3			

	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	Secure proper workspace ventilation in order to keep xposure: concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lowe levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
	Hand protection:			Glove thickness: 0.40 mm	
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suital footwear, such as rubber boots (EN 20345) or shoes that cove entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid cher (Viton, PVC, himex) and footwear made from the same material			
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		
	Structural measures to prevent exposure:	Use m	odern equipment.		
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.		
	Technical measures to prevent exposure:	See Se	ection 6		

SECTI	ON 9. Physical and chemical proper	ties	
9.1	Information on basic physical and c	hemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available



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Trading name:		ALKALINE ALCO	NE ALCOHOL, SOLUTION				
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3		

Boilin poin Flam Love Flash Auto Deco pH: Kine Solu Parti octa	ting point / freezing point: ng point or initial boiling it and boiling range: mability: er and upper explosion limit: n point: p-ignition temperature: pomposition temperature: matic viscosity:	No information availableNo information availableNo information availableNo information available19°CNo information availableNo information available	No information availableNo information available
poin Flam Love Flash Auto Deco pH: Kine Solu Parti octa	at and boiling range: amability: er and upper explosion limit: an point: p-ignition temperature: composition temperature:	 available No information available No information available 19°C No information available No information available No information available No information available No information available 	No information availableNo information availableNo information availableNo information availableNo information availableNo information availableNo information available
Love Flash Auto Deco pH: Kine Solu Parti octa	er and upper explosion limit: n point: p-ignition temperature: pomposition temperature:	 available No information available 19°C No information available No information available No information available No information available No information 	No information availableNo information availableNo information availableNo information availableNo information available
Flash Auto Deco pH: Kine Solu Parti octa	n point: p-ignition temperature: pomposition temperature:	 available 19°C No information available No information available No information available No information available No information 	No information availableNo information availableNo information availableNo information available
Auto Deco pH: Kine Solu Parti octa	o-ignition temperature:	No information available No information available No information available No information	No information available No information available No information available
Decc pH: Kine Solu Parti octa	omposition temperature:	available No information available No information available No information	No information available No information available
pH: Kine Solu Parti octa	· · ·	available No information available No information	No information available
Kine Solu Parti octa	matic viscosity:	available No information	
Solu Parti octa	matic viscosity:		No information available
Parti octa		available	
octa	bility:	No information available	No information available
Vapo	ition coefficient n- nol/water (log value):	No information available	No information available
	our pressure:	No information available	No information available
Dens	sity and/or relative density	No information available	No information available
Relat	tive vapour density:	No information available	No information available
Parti	icle characteristics:	No information available	No information available
9.2 Othe			

SECTIO	SECTION 10. Stability and reactivity					
10.1	Reactivity:	See subsections 10.3 through 10.5.				
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).				
10.3	Possibility of hazardous reactions:	No dangerous reactions known.				



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Tradir	ng name:		ALKALINE ALCO	ALKALINE ALCOHOL, SOLUTION				
Produ	Product code: ALA-OT-X**		Revision date:	22 Dec 2022	Version:	3		
10.4	Condition	s to avoid:	Avoid heat, sparks,	open flames and other	ignition sources.			
10.5	Incompati	ble materials:	No further relevant information available.					
10.6	Hazardou	s decomposition products:	No dangerous decompostion products known.					

11.1 Informa	ation on toxicologie	al effects				
Acute t	oxicity:					
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ o ATE _{mix}	r Ex	posure time	Results
Oral:	-	rat	LD ₅₀		-	7.060 mg/kg (ethanol)
Dermal:	-	rabbit	-		-	>20.000 mg/l (ethanol)
Inhalation:	-	rat	LC ₅₀		4 h	>8.000 mg/l (ethanol)
Specific	target organ toxic	, , ,	sure (STOT SE):			
	Specific effects			Target	-	Note
Oral:	No informatio	n available		ormation av		-
Dermal:	No informatio	n available	No inf	ormation av	ailable	-
Inhalation:	No informatio	n available	No inf	ormation av	ailable	-
Aspirat	ion hazard:	No	o information av	ailable.		
Irritatio	n and corrosion					
i	Exposi	ure time	Species	Evaluation	Method	Note
Skin corrosion/irritat	on:	-	-		-	-
Serious eye damage/irritatic	n -	-	-		-	-
Sensitiz	ration					
Skin sensitizatio	1	nformation availa	ıble.			
Respiratory sens		nformation availa				



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Trading name:			A	ALKALINE ALCO	COHOL, SOLUTION				
Product code: ALA-OT-X**		Revision date:		22 Dec 202	22 Dec 2022		n:	3	
Oral exposure:		No informati	on available.						
Dermal exposure	e:	No informati	on available.						
Inhalation expos	ure:	No informati	on available.						
Eye exposure:		No informati	on available.						
		,							
Repeate	ed dos	se toxicity (sub	acute, subchr	onic, chronic)					
		Dose	Exposure time	Species	Method	Evaluatior	I	Note	
Subacute oral	No avai	information lable	No information available	No informatic available	n No informatio n available	No inform available	nation	-	
Subacute dermal		information lable	No information available	No informatic available	n No informatio n available	No inform available	nation	-	
Subacute inhalation		information lable	No information available	No informatic available	n No informatio n available	No inform available	nation	-	
Subchronic oral		information lable	No information available	No informatic available	n No informatio n available	No inform available	nation	-	
Subchronic dermal		information lable	No information available	No informatic available	n No informatio n available	No inform available	nation	-	
Subchronic inhalation		information lable	No information available	No informatic available	n No informatio n available	No inform available	nation	-	
Chronic oral		information lable	No information available	No informatic available	n No informatio n available	No inform available	nation	-	
Chronic dermal	No information available		No information available	No informatic available	n No informatio n available	No informatio		-	
Chronic inhalation		information lable	No information available	No informatic available	n No informatio n available	No inform available	nation	-	
Specific	targe	t organ toxicit	y – repeated e	exposure (STOT F	RE):		1		
			Specific effe	cts	Target o	rgan		Note	
Subacute oral		No informa	ition available		No information	available	-		
Subacute oral Subacute derma		No informa	Specific effe	cts	Target o	available	-	Note	<u>.</u>



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Trading	name:		ALK/	ALKALINE ALCOHOL, SOLUTION					
Product	luct code: ALA-OT-X** I			ion date:	22 Dec 2022	Version:	3		
Subacute inhalation No information available		available		No information available	-				
Subchronic oral No information available		available		No information available	-				
Subchro	nic dermal	No information	available		No information available	-			
Subchro	nic inhalat	on No information	available		No information available	-			
Chronic o	oral	No information	available	No information available		-			
Chronic o	dermal	No information	available	No information available		-			
Chronic i	inhalation	No information	available		No information available	-			
	CMR effec	ts (carcinogenicity; mu	tagenicity; re	eproductive	toxicity)				
	Carcinogenicity:		Bas	sed on avail	able data, the classification of	criteria are not i	met.		
	Mutagenicity in vitro:		Bas	sed on avail	able data, the classification o	criteria are not i	met.		
	Genotoxic	ity:	Bas	Based on available data, the classification criteria are not met.					
	Mutageni	city <i>in vivo</i> :	Bas	Based on available data, the classification criteria are not met.					
	Germ cell	mutagenicity:	Bas	Based on available data, the classification criteria are not met.					
	Reproduc	tive toxicity:	Bas	Based on available data, the classification criteria are not met.					

	Summary properties		the CMR	Based on met.	available data, the classific	ation criteria a	re not		
11.2	Informatio	on on other hazards:							
11.2.1.	Endocrine	disrupting properties:							
		n endocrine disrupting human health.	properties						
11.2.2.	Other info	rmations:							
	-								

SECTION 12. Ecologie	SECTION 12. Ecological information										
12.1 Toxicity											
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note					
Fish	LC ₅₀	96 hours	Lepomis macrochirus (Bluegill sunfish)	No information available	8.140 mg/l /48 h (ethanol)	-					
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-					



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Trading name:	ALKALINE ALCOHOL, SOLUTION									
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3					
		Pseudokirchner								

Algae/aquatic plants	IC ₅₀	4 days	iella subcapitata (green algae)	No information available	5.000 mg/l / 7d (ethanol)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2 Persistence and degradability

Abiotic degradation							
	Degradation half-lives	Method	Evaluation	Note			
Marine water	No information available	No information available	No information available	-			
Fresh water	No information available	No information available	No information available	-			
Air	No information available	No information available	No information available	-			
Soil	No information available	No information available	No information available	-			

% Degradation	Time (days)	Method	Evaluation	Note	
No information available	No information available	No information available	No information available	No information available	
12.3 Bioaccun	nulative potential				
	nulative potential water partition coefficient	(log Kow)			



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Tradia								.COHOL, SOLUTION							
Tradin	-								-						
Produc	ct cod	e:	ALA-OT-X**		Revisio	on da	ate:	22 D	ec 2022		Ve	/ersion: 3			
	Bioc	oncent	ration f	actor (BCF)											
V	Bioconcentration factor (BCF) Value Species			M	letho	d		Evalu	ation		Note				
No info availab			No availab	inform: le	ation	No information available		No ii	nformatio	on available	9	-			
	Chro	nic ecc	otoxicity	/											
	Val	ue		Dose	E	xposure time	S	pecies	Me	ethod	Evaluatio	'n	Note		
Chronic	c toxic	ity on f	ish	LC ₅₀	inf	No information available		nformation information		No infor avail	mation able	No informatio available	on	-	
Chronic crustac		•		EC ₅₀	No information available		NoNoinformationinformationavailableavailable		No informatio available	on	-				
12.4		oility in													
		-		d distributio	on in e	environmei	ntal c	ompartm	ents:						
			tion av	ailable											
		ace ten	sion:	°C		oncontrati	00		Mothe	vd			Note		
	information inf				No	Concentration No information available				-	•				
	Adso	orption	/ deso	rption											
Transpo		A	\/D coe	fficient		log Kow	E۱	vaporatior	n rate	rate Method			Note		
				on available		o formation ailable		o informa ailable	tion	No information		-			



							Page 14 of 17	
Trading	name:		ALKA	LINE ALCO	DHOL, S	SOLUTION		
Product code: ALA-OT-X**			Revisio	on date:	22 [Dec 2022	Version:	3
Water-ai	r No i	nformation available	No information available	No inforn available	nation	No information available	-	
Soil-air No information available		No information available	No inforn available	nation	No information available	-		
		f PBT and vPvB assessr available data, the pro		contain any	PBT or	vPvB substances.		
		e disrupting properties available data, does n		ocrine disrup	otors.			
		verse effects er relevant information	available					
		oosal considerations						
13.1	Waste t	treatment methods						
13.1.1.		t/Packaging disposal: for disposal to the leg ion.	al person autho	orized by the	e Minist	ry of Environmenta	l and Nature	
13.1.2.		codes/waste designation ing that contains resid			or is con	taminated with haz	ardous substar	
	Таскау							
13.1.3.	Waste t	treatment – relevant in	formation:					
	No info	rmation available						
13.1.4.		e disposal – relevant in						
	Waste r	must not be disposed	of into the sewa	age system.				
13.1.5.	Other d	lisposal recommendat	ions:					
	Other disposal recommendations: Do not dispose of the product's remain authorized by the ministry in charge. Do the packaging to the collectors authorized			dispose of t	he pack	aging into the sewa		

Relevant Community provisions: 13.1.6.



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Trading name:		ALKALINE ALCO	ALKALINE ALCOHOL, SOLUTION		
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3

Disposal must be made according to official regulations. **SECTION 14 TRANSPORT INFORMATION** Transporting/shipment by road (ADR) UN number: 1170 UN proper shipping name: Ethanol solution 3 Transport hazard class(es): Ш Packing group: Environmentally hazardous: _ Special precautions for user: _ Transporting/shipment by rail (RID) UN number: 1170 UN proper shipping name: Ethanol solution 3 Transport hazard class(es): Packing group: Ш Environmentally hazardous: _ Special precautions for user: _ Inland waterway transport (ADN) UN number: 1170 UN proper shipping name: Ethanol solution Transport hazard class(es): 3 Ш Packing group: Environmentally hazardous: -Special precautions for user: _ Transporting/shipment by sea (IMDG) UN number: 1170 UN proper shipping name: Ethanol solution Transport hazard class(es): 3 Packing group: Ш Environmentally hazardous: _ Special precautions for user: -Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Transporting/shipment by air (ICAO-TI/IATA-DGR) UN number: 1170 UN proper shipping name: Ethanol solution



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Trading name:	ALKALINE ALCOHOL, SOLUTION						
Product code: ALA-OT-X**			Revision date:	22 Dec 2022	Version:	3	
Transport hazard cl	lass(es):	3					
Packing group:							
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					

Further information:

-

5.1	Safety, health and environmental regulations/legislation specific for the substance or mixture								
	EU regulations								
	Authorization and/or restrictions of use								
	Authorizations:	-							
	Restrictions:	-							
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). 							
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);							
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-							
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act							



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Trading name:		ALKALINE ALCO	DHOL, SOLUTION		
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3

15.2	Chemical safety assessment
	None

SECTIC	SECTION 16. Other information					
16.1	Indi	cation of changes:	-			
16.2	Abb	previations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 			
16.3.	Key literature references and source of data:		-			
16.4.	16.4. Classification and procedure u 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)			
Classifi	catior	1	Classification procedure			
-			-			
16.5.	Rele	evant H statements (numb	er and full text)			
		225	Highly flammable liquid and vapor.			
		314	Causes severe skin burns and eye damage.			
	H:	315	Causes skin irritation.			
		319	Causes serious eye irritation.			
		400	Very toxic to aquatic life.			
16.6.	Trai	ning advice:	-			
16.7.	Further information:		** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX: Exposure scenario resulting to chemical safety assessment

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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

SECTI	ON 1: Identification of t	he substa:	nce/mixture a	and of the company/undertaking			
1.1.	Product identifier						
	Trading name:	BIEBRICH	I SCARLET-ACID FUCHSIN REAGENT				
	Chemical name:	-					
	Catalogue number:	BSAF-OT	-X**				
1.2.	Relevant identified use	es of the su	ubstance or mix	xture and uses advised against			
	Uses:		For use with	special staining kits.			
	Uses advised against:		Only the ider	ntified uses are advised.			
	Reason why uses advis against:	sed	device, regist	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier of the safety data sheet						
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska	59, Zagreb			
	Telephone number:		+385 1 2409997				
	Fax no.:		+385 1 2404039				
	e-mail of competent p	erson:	msds@biognost.hr				
	National contact:		-				
1.4.	Emergency telephone	number					
	National Protection an	d Rescue [Directorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or	mixture			
2.1.1.	Classification according to Regula	tion (EC) No 12	72/2008 (CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous subst	ance.	-		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	tements: see Se	ection 16		
2.2.	Label elements				
	Product identification:	BIEBRICH SCA	RLET-ACID FUCHSIN REAGENT		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT			
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Further information:	-		
2.3.	Other hazards			
	Endocrine Disrupting Proper	rties:		
	No known endocrine disrupting properties Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.			

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
-	-	-	Contains no hazardous substances	-			

SECTI	ON 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:		-		
	Following inhalation:		No information available		
	Following skin contact:		No information available		
	Following eye contact:		No information available No information available		
	Following ingestion:				
	Self-protection of the first aider:		Treat symptomatically.		
4.2.	Most important symptoms and eff		fects, both acute and delayed		
	Following inhalation:	No i	information available		
	Following skin contact:	No i	information available		
	Following eye contact:	No i	information available		
	Following ingestion:	No i	information available		
4.3.	Indication of any immedia	te medi	cal attention and special treatment needed		
	-				

SECTIO	SECTION 5 Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

	Unsuitable extinguishing media: water jet
5.2.	Special hazards arising from the substance or mixture
	Hazardous combustion products: No information available
5.3.	Advice for firefighters
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.
5.4.	Additional information
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.

SECTIO	ON 6. Accidental release meas	ires		
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Wear protective equipment (see Section 8).			
6.2.	. Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Nation Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and material for cor	tainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	-		
6.4.	Reference to other sections			
	See Section 7 for information See Section 8 for information See Section 13 for informatio	about personal protective equipment.		



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Trading name: BIEBRICH SCARLET-ACID FUCHSIN			UCHSIN REAGENT	F	
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTIO	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any inco	mpatibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a we ventilated storage rooms, and away from sources of hea sunlight, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).			
7.3.	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			

SECTION 8. Ex	SECTION 8. Exposure controls/personal protection					
8.1. Contr	ol parameters					
Substance		CAS No		exposure limit t term values	Biological limit values	
			ppm	mg/m ³		
-		-	-	-	No information available	
Substance name:	-					



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Trading na	ame:	BIEE			BRICH SCARLET-ACID FUCHSIN REAGENT				NT
Product co	ode:	BSAF-O	T-X**		Date o	f compila	tion:	21 Dec 2022	Version: 4
EC No:	-		CAS No:	-					
DNEL									
					Ind	lustrial			
Route of		A	cute		Acute	е		Chronic	Chronic
exposure:		effe	ct local		effect sys	temic		effect local	effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
Critical phy	sical par	ameters: s	olubility, fla	mma	bility, cor	rosivity:		-	
					Сог	nsumer			
Route of		A	cute		Acute	e		Chronic	Chronic
exposure:		effe	ct local		effect sys	temic		effect local	effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
PNEC									
Environmer	ntal prot	ection tar	get			PNEC			
Fresh water	~					No information available			
Freshwater	sedimer	nts				No information available			
Marine wat	er					No inforr	nation	n available	
Marine sed	iments					No inforr	nation	n available	
Food chain						No information available			
Microorgar	nisms in :	sewage tre	eatment			No information available			
Soil (agricu	ltural)				No information available				
Air					No information available				
8.2.	Exposu	ire control	s						
8.2.1.	Appro	oriate eng	ineering co	ntrols					
	Substa	nce/mixtu	re related		Lico tho				so porsonal protoctivo
		sures to prevent exposure ng identified uses:			Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structu exposu		res to preve	ent	No information available				
	Organi		neasures to		Organization of work in order to reduce other worker's influence during work process.				
	-			nt	_	-		e ventilation in ord	er to keen
		-			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

8.2.2.	Personal protection equi	oment					
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection						
	Hand protection:		ctive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:		Vear antistatic clothing made of natural fibers (such as cotton) with long leeves (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection: filter f		ctive full face mask (EN 136) or half mask (EN 140) equipped with a for organic vapors, type "A" (boiling point >65°C) acording to EN 7) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No in	formation available				
8.2.3.	Environmental exposure controls						
	Substance/mixture relate measures to prevent exp		See Section 6				
	Structural measures to pr exposure:	revent	Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to pr exposure:	event	See Section 6				

9.1.	Information on basic physical and che	emical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	red	No information available
	Odour/odour threshold:	No information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available



Other information

9.2.

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SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading name:	BIEB	BIEBRICH SCARLET-ACID FUCHSIN REAGENT					
Product code: BSAF-OT-X**		Date of compilation:	21 Dec 2022	Version: 4			
Decompo	osition temperature:	No information availab	ole No in	formation available			
pH:		No information availab	ole No in	No information available No information available No information available			
Kinemati	c viscosity:	No information availab	ole No in				
Solubility	:	No information availab	ole No in				
Partition (log value	coefficient n-octanol/water e):	No information availab	ole No in	formation available			
Vapour p	ressure:	No information availab	ole No in	No information available			
Density a	nd/or relative density:	No information availab	ole No in	formation available			
Relative v	/apour density:	No information availab	ole No in	formation available			
Particle c	haracteristics:	No information availab	ole No in	formation available			

SECTIO	SECTION 10. Stability and reactivity			
10.1.	Reactivity:	See subsections 10.3 through 10.5.		
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.		
10.3.	Possibility of hazardous reactions:	No information available.		
10.4.	Conditions to avoid:	No information available.		
10.5.	Incompatible materials:	No information available.		
10.6.	Hazardous decomposition products:	No information available.		

SECTION 11. Toxic	SECTION 11. Toxicological information					
11.1. Information on toxicological effects						
Acute toxic	ity:					
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results	
Oral exposure:	No information available	-	LD ₅₀	-	-	
Dermal exposure:	No information available	-	LD ₅₀	-	-	
Inhalation exposure:	No information available	-	LC ₅₀	-	-	
Specific tar	get organ toxicity – sir	ngle exposure (S	STOT SE):			
	Specific e	ffects	Target orga	n	Note	



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Trading name:						Page 8 of 16
		BIEBRIC	H SCARLET-A	CID FUCHS	IN REAGEN	JŢ
Product code:	BSAF-OT-X**	Da	te of compilat	tion: 21 De	ec 2022	Version: 4
Oral exposure:	No informa	ation available	No infor	mation availal	h	_
Dermal exposure		ation available		mation availal		_
Inhalation exposure: No information availabl				mation availal		_
Respirat	ory irritation:	Ν	o information a	vailable		
Irritation	and corrosion			1	.	.
	Exposure tim	le Speci		aluation	Method	Note
Skin irritation:	-	-	-		-	-
Eye irritation:	-	-	-		-	-
Sensitiza						
Dermal exposure	: No information	available				
Inhalation exposure:	No information	available				
	i					
Sympto	ms related to the pl	nysical, chemica	al and toxicoloc	gical character	istics	
Oral exposure:	No information	-		<u>,</u>		
Dermal exposure						
Inhalation exposure:	No information	available				
Eye exposure:	No information	available				
Repeate	d dose toxicity (sub	acute, subchro	onic, chronic)			
•	Dose	Exposure time	Species	Method	Evaluation	n Note
	No information	No information	No information	No informatio	No inform available	nation _
Subacute oral	available	available	available	n available	avaliable	
Subacute oral Subacute dermal	available No information available	available No information available	available No information available	n available No informatio n available	No inform available	ation _
Subacute	No information	No information	No information	No informatio	No inform	-



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

Subchronic dermal	No information available	No information available	No information available	No informatio n available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic oral	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic dermal	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No informatio n available	No information available	-

Specific target	organ toxicity – repeate	d exposure (STOT RE):			
	Specific effects	Target organ	Note		
Subacute oral	No information availab	le No information available	-		
Subacute dermal	No information availab	le No information available	-		
Subacute inhalation	No information availab	le No information available	-		
Subchronic oral	No information availab	le No information available	-		
Subchronic dermal	No information availab	le No information available	-		
Subchronic inhalation	No information availab	le No information available	-		
Chronic oral	No information availab	le No information available	-		
Chronic dermal	No information availab	le No information available	-		
Chronic inhalation	No information availab	le No information available	-		
CMR effects (c	arcinogenicity, mutagen	city, reproductive toxicity)			
Carcinogenicit	y: No i	No information available			
Mutagenicity i	<i>n-vitro</i> : No i	No information available			
Genotoxicity:	No i	formation available			
Mutagenicity i		formation available			

Genotoxicity:	No information available
Mutagenicity in-vivo:	No information available
Germ cell mutagenicity:	No information available
Reproductive toxicity:	No information available
Summary of evaluation of th	e CMR properties: -



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Trading name:	BIEB	BIEBRICH SCARLET-ACID FUCHSIN REAGENT						
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4				

11.2	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
11.2.2.	Other informations:
	-

12.1. Toxicity Acute toxicity	Dose	Exposure	Species	Method	Evaluation	Note
Acute toxicity	Dose	time	species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	-	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	_	-
Microorganisms	LC ₅₀	72 hours	-	-	-	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	-	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	-	-
Other organisms	-	-	-	-	-	-



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Trading name:	BIEB	BIEBRICH SCARLET-ACID FUCHSIN REAGENT						
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4			

Abio	tic deg	radation								
	De	egradation ha	lf-lives		Method			Evaluatior	า	Note
Marine water	No i	nformation av	ailable	No infc	No information available		No information avai		ilable	-
Fresh water	No i	nformation av	vailable	No info	ormation availab	ole	No inform	nation ava	ilable	-
Air	No i	nformation av	vailable	No info	ormation availab	ole	No inform	nation ava	ilable	-
Soil	No i	nformation av	ailable	No info	ormation availat	ole	No inform	nation ava	ilable	-
1	egrada			***						
% Degradation		Time (day			lethod		Evaluatio			lote
No informatio available		lo infor vailable	mation	No inforr available	nation		o informati ailable		lo informa Ivailable	ation
12.3. Bioa	ccumul	lative potentia	al							
		efficient: n-o		vater (log K	low):					
Value	Con	centration	pН	°C	Method		Evalu	ation		Note
-	No availat	information ble	-	-	- No information available		No information available		-	
Bioc	oncent	ration factor (BCF)							
Value		Specie		N	lethod		Evaluat	ion		Note
No informatic available			mation	No infor available			o informati ailable	on	No infor available	
Chro	nic ecc	otoxicity		1					3	
Val		Dos	se	Exposure time	Species		Method	Evalu	uation	Note
Chronic toxici	ty on f	ïsh LC₅₀	ir	lo nformation vailable	No information available		o formation ailable	No infor available		-
Chronic toxici	ty on	EC ₅₀	N	10	No	No	D	No infor	mation	-



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Tradin	g nam	ne:		BIEBRICH SCARLET-ACID FUCHSIN REAGENT									
Produc	ct cod	e:	BSAF	-OT-X**		Date	e of co	ompilati	on:	21 Dec	2022	Version:	4
crustac	ea (Da	ıphnia)						mation able		rmation lable	available		
12.4.	Mob	oility in	soil										
		-		ed distributi	on ir	n environm	nental	compart	ment	s:			
	No i	nforma	ation a	vailable				•					
	Surfa	ace ten	ision:										
	ν	/alue		°C		Concentr	ation		1	Method		No	te
	No infor avail	matior able	า่	o informati vailable	No				lable -	-			
	Adso	orption	/ deso	orption								-	
Transpo	ort			fficient constant	log Kow Eva		Evaporation rate		Method	N	ote		
Soil-wa	ıter	No availa		nformation		informatio ilable		lo inform vailable	atior	1	No information available	-	
Water-a	air	No availa		nformation	-	informatio ilable		lo inform vailable	atior	ן	No information available	-	
Soil-air	,	No availa		nformation		informatio ilable		lo inform vailable	atior	1	No information available	-	
	i						1			ł		ł	
12.5.	Resu	Its of I	PBT an	d vPvB asses	sme	nt							
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.												
12.6.	Ende	ocrino	dicrum	ting properti	6								
12.0.				••••		ontain cor	npone	ents cons	idere	d to have	e endocrine d	disrupting r	properties
	acco	rding t	to REA		7(f) c	or Commis	sion D	elegated			U) 2017/210		
12.7.	Othe	er adve	rse eff	ects									
	No i	nforma	ation a	vailable									



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Trading name:	BI	BIEBRICH SCARLET-ACID FUCHSIN REAGENT							
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4				

SECTIO	N 13. Disposal considerat	ions
13.1.	Waste treatment metho	ds
13.1.1.	Droduct (Dockooring dicp	
15.1.1.	Product/Packaging disp	
	Protection.	ne legal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste desi	gnations according to Law:
	No information available	2
13.1.3.	Waste treatment – relev	ant information:
	No information available	2
13.1.4.	Sewage disposal – relev	ant information:
	Waste must not be disp	osed of into the sewage system.
13.1.5.	Other disposal recomme	endations:
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community pro	ovisions:
	-	
SECTIO	N 14. Transport informat	ion
	Transporting/shipment by	road (ADR)
UN num	ıber:	Not subject to transport regulations.
UN prop	per shipping name:	-
Transpo	ort hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by	rail (RID)
UN num	ıber:	Not subject to transport regulations.
UN prop	per shipping name:	-



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Trading name:		BIEBRICH SCARLET-ACID FUCHSIN REAGENT							
Product code:	BSAF-OT-X**		Date of compilation:	21 Dec 2022	Version:	4			
Transport hazard	class(es):	-							
Packing group:		-							
Environmentally h	azardous:	-							
Special precautior		-							
Inland wa	aterway transport (AD	DN)							
UN number:		No	t subject to transport regu	lations.					
UN proper shippir	ng name:	-							
Transport hazard	class(es):	-							
Packing group:		-							
Environmentally h	azardous:	-							
Special precaution	ns for user:	-							
Transpor	ting/shipment by sea	(IMDG)						
UN number:		No	Not subject to transport regulations.						
UN proper shippir	ng name:	-							
Transport hazard	class(es):	-							
Packing group:		-							
Environmentally h	azardous:	-							
Special precaution	ns for user:	-							
Transpor	ting/shipment by air	(ICAO-	TI/IATA-DGR)						
UN number:		No	Not subject to transport regulations.						
UN proper shippir	ng name:	-	-						
Transport hazard	class(es):	-							
Packing group:		-							
Environmentally h	azardous:	-							
Special precaution	ns for user:	-							
Further information	on: -								

SECTIO	ON 15. Regulatory informatio	n
15.1.	Safety, health and environme	ntal regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or restricti	ons of use
	Authorizations:	-
	Restrictions:	-



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							9	01 16
Trading	name:	•	BIEB	RICH SCARLET-ACI	D F	UCHSIN REAGEN	T	
Product	code:	BSAF-OT-X**		Date of compilation	า:	21 Dec 2022	Version:	4
	Other EU 1	regulations:	18 Decer Restriction and Con 76/769/E 2000/21/ Directive on the lin organic so amending Council E of worker Regulation December mixtures, amending REACH R	on (EC) No 1907/2006 of nber 2006 concerning on of Chemicals (REACH g Directive 1999/45/EC a mmission Regulation (E EC and Commission Di EC; 2004/42/CE of the Europ mitation of emissions o olvents in certain paints a g Directive 1999/13/EC; Directive 98/24/EC of 7 Ap rs from the risks related to on (EC) No 1272/2008 of er 2008 on classification amending and repealing g Regulation (EC) No 190 estrictions on the manufa	the H), e Ind r C) recti ean f vol and v oril 1 f vol oril 1 f vol oril 1 f vol n f vol n n f vol 7/20 actur	Registration, Evaluat establishing a Europe repealing Council Reg No 1488/94 as wel ves 91/155/EEC, 93/ Parliament and of the latile organic compon- varnishes and vehicle 998 on the protection emical agents at work, European Parliament abelling and packag Directives 67/548/EEC 06; ring, placing on the m	tion, Authoris ean Chemica julation (EEC) I as Counci 67/EEC, 93/1 Council of 21 unds due to refinishing pr of the health ; and of the Co ing of subst C and 1999/4	sation and Ils Agency, No 793/93 I Directive 05/EC and April 2004 the use of oducts and and safety puncil of 16 cances and 45/EC, and
	Informatic guideline)	-	/13/EC ab	out limitation of emiss	ions	of volatile organic	compounds	(VOC-
	National legislation:			Is Act, Regulation on cous substances, Ordinar piological limit values, l ation of waste with a wa ce on writing Material s ces Act	nce (Regi aste	on occupational exp ulation on categorie catalog and list of l	oosure limit es, types and hazardous w	values vaste,
15.2.	Chemical s	safety assessment						
	None							

SECTIO	ON 16. Other information	
16.1.	Indication of changes:	-
16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

16.3.	Key literature references and source of data:	-	
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classifi	cation	Classification procedure	
-		-	
16.5.	Relevant H statements (num	ber and full text)	
	H: -	-	
16.6.	Training advice:	-	
		** "X" in the product code marks different volumes (different packagings of the product)	
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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Trade name:	FERRI REAGENT, VERHOEFF B					
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3	

1.1.	Product identifier	Product identifier				
	Trading name:	FERRI R	FERRI REAGENT, VERHOEFF B			
	Chemical name:	-	-			
	Product code:	FRV-OT	-X**			
1.2.	Relevant identified	uses of the	e substar	nce or mixtu	re and uses advised against	
	Uses:			For use w	vith special staining kits.	
	Uses advised agains	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advised against:		inst:	 The product is intended for use only as an <i>in vitro</i> diagnostic t: medical device and there is no reason to use it for other purposes. 		
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGno	BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:	Telephone number:		+385 1 2409997		
	Telefax:		+385 1 2404039			
	e-mail of competer	it person:	msds@biognost.hr			
	National contact:	National contact:		-		
1.4.	Emergency telepho	Emergency telephone numbers				
	National Protection	and Rescu	ue Direct	orate:	112	
	Medical information	า:			+385 1 2348 342	
	Other information:				-	

SECTIO	N 2. Hazards identification			
2.1.	Classification of the substance or mixture			
2.1.1.	Classification according to	Regulation (EC) No 1	272/2008 (CLP)	
	Hazard class and ca	ategory code:	Hazard statement*:	
	Skin Irr. 2		H315	
	Eye Irr. 2		H319	
2.1.2.	Additional information			
	-			
*For the	full text of H and EUH phras	ses see Section 16.		
2.2.	Label elements			
	Product identification: FERRI REAGENT, VERHOEFF B			
	Identification number:	Identification number: -		
	Authorisation number:	-		



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Trade name:	FERRI REAGENT, VERHOEFF B					
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3	

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation.
	Precautionary statement:	 P280 Wear protective gloves/protective clothing/eye/protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
		nting properties. tains no components considered to be either persistent, bioaccumulative sistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Co	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
10025-77-1/ 600-047-2/ -	-	9 – 10 %	ferric chloride hexahydrate	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 3; H412		

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid me	easures			
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.			
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.			
	Following skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.			



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Trade r	name:		FERRI REAGE	NT, VERHOEFF B		
Product code: FRV-OT-X**		FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3
	Followi	ng eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs and persists: Get medical advice.			
	Followi	ng ingestion:	Never give anything by mo water.	outh to an unconscious pers	son. Rinse mouth	ו with
	Self-protection of the first aider		-			
4.2.	Most important symptoms and effects, both acute and delayed					
	Followi	ng inhalation:	According to our findings, of the substance have not	chemical, physical and toxic been entirely tested.	cological proper	ties
	Followi	ng skin contact:	According to our findings, chemical, physical and toxicological p of the substance have not been entirely tested.			ties
	Followi	ng eye contact:	According to our findings, of the substance have not	chemical, physical and toxic been entirely tested.	cological proper	ties
	Followi	ng ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTIO	ON 5. Firefighting measures		
5.1.	Extinguishing media		
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.	
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.	
5.2.	Special hazards arising from the substance or mixture		
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).	
5.3.	Advice for firefighters		
	Use a self-contained open-circuit containers exposed to fire with wa	ompressed air breathing apparatus and fireproof clothing. Cool closed ter spray or vapor.	
5.4.	Additional information		
	Heating may cause container cracking due to increase in pressure. Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.		

SECTION 6. Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
	Protective equipment:	Use suitable personal protective equipment (see Section 8).	



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Trade name:		FERRI REAGE	NT, VERHOEFF B		
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3
		Evacuata member	s of all non-essential perso	nnol and those	

	Accident prevention methods	members without protective equipment.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).					
6.2.	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3.	Methods and materials for containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.					
6.3.2.	Cleaning up: After removing the product, use water to wash the work space and used materials.					
6.3.3.	Other information: No information available.					
6.4.	Reference to other sections					
	-					

SECTIC	DN 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Refer to the manufacturer's recommendations.			
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions: Technical measures and storage conditions: Keep in tightly closed and upright set con well ventilated storage rooms at tempera ranging from 15 to 25 °C.					
	Packaging materials:	Manufactu	turer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the contain tightly closed.				



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Trade name:	FERRI REAGENT, VERHOEFF B						
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	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. EX	POSU	JRE CO	NTROLS / P	ERSON	AL PROTECTIO	ON			
8.1. Cont	rol pa	rameter	s						
Substance		CAS No		Occupational exposure limit values/short term values			Biological limit values		
				ppm	m	mg/m ³			
-			-		-		-		-
Substance:	-		1						
EC No:	-		CAS No:	-					
DNEL									
					Industrial				
Route of exposure:			te effect local		ute effect ystemic	C	Chronic effect local		Chronic effect systemic
Oral		-		-		-			-
Inhalation		-		-		-			-
Dermal		-		-				-	
Critical physica	l para	meters:	solubility, fla	ammabil	ity, corrosivity	:	-		
					Consumer	I.			
Route of exposure:			te effect local		ute effect ystemic	C	Chronic effect local		Chronic effect systemic
Oral		-		-		-			-
Inhalation		-		-	-				-
Dermal				-			-		
PNEC									
Environmental	prote	ction ta	rget		PNEC				



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Trade name:		FERRI REAGEI	NT, VERHOEFF B		
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3

Fresh water	No information available
Freshwater sediments	No information available
Marine water	No information available
Marine sediments	No information available
Food chain	No information available
Microorganisms in sewage treatment	No information available
Soil (agricultural)	No information available
Air	No information available

8.2.	Exposure controls						
8.2.1.	Appropriate engineering controls						
	Substance/mixture related measu to prevent exposure during identi uses:		Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prevent exposure:		No information available				
	Organisational measures to preve exposure:	nt	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equipment:	Personal protection equipment:					
8.2.2.1.	Eye and face protection:		Safety glasses tested and approved under appropriate standards such as EN 166(EU).				
8.2.2.2.	Skin protection:						
	Hand protection:		Handle with chemical resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.				
	Other skin protection:		No specific protective equipment required.				
8.2.2.3.	Respiratory protection:		Use when overexposure potential. Improper use of respirators is dangerous.				
8.2.2.4.	Thermal hazards:		No information available				
8.2.3.	Environmental exposure controls						
	Substance/mixture related measures to prevent exposure:	See S	Section 6				
	Structural measures to prevent exposure:	Use	modern equipment.				
	Organisational measures to prevent exposure:	•	ot the work process to the required working conditions of the cplace.				



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Trade name:	FERRI REAGENT, VERHOEFF B							
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Technical measures to prevent exposure:

See Section 6

9.1.	Information on basic physical and chemical properties							
		Value	Method					
	Physical state:	liquid	No information available					
	Colour:	yellow	No information available					
	Odour/odour threshold:	No information available	No information available					
	Melting point / freezing point:	No information available	No information available					
	Boiling point or initial boiling point and boiling range:	No information available	No information available					
	Flammability:	No information available	No information available					
	Lover and upper explosion limit:	No information available	No information available					
	Flash point:	No information available	No information available					
	Auto-ignition temperature:	No information available	No information available					
	Decomposition temperature:	No information available	No information available					
	pH:	No information available	No information available					
	Kinematic viscosity:	No information available	No information available					
	Solubility:	No information available	No information available					
	Partition coefficient n- octanol/water (log value):	No information available	No information available					
	Vapour pressure:	No information available	No information available					
	Density and/or relative density	No information available	No information available					
	Relative vapour density:	No information available	No information available					
	Particle characteristics:	No information available	No information available					
).2.	Other information							

SECTIO	SECTION 10. Stability and reactivity					
10.1.	Reactivity:	Not reactive under normal conditions.				
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).				
10.3.	Possibility of hazardous reactions:	No information available.				



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Trade name:			FE	FERRI REAGENT, VERHOEFF B					
Product	Product code: FRV-OT-X** Date o		Date of co	te of compilation: 14 November 2022			3		
10.4.	Condit	ions to avoid:		Contact with extremes.	n incompatible materials an	d temperature			
10.5.	Incom	patible materials:		Strong oxidizers.					
10.6.	Hazaro	lous decomposition	products:	thermal dec	ecompose under normal con composition can produce ca c) and carbon dioxide (as as cons).	irbon monoxide			

1	oxicological infor	rmation						
11.1. Inform	nation on toxicolog	gical effects						
Acute	toxicity:							
Route of exposure:	Method	Sp	ecies	es Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}		Exposure time		Results
Oral:	No informat available		-	No information available		ormation -		-
Dermal:	No informat available		-	No information available		-		-
Inhalation:	No informat available		-	No information available		-		-
Specif	fic target organ to	xicity - single e	xposure (ST	OT-SE):				
		Specific effe	ects		Targe	t organ		Note
Oral:	No informatio	on available			-		-	
Dermal:	No informatio	on available			-		-	
Inhalation:	No informatio	on available			-		-	
Aspira	ation hazard:		-					
Irritati	ion and corrosion		1	1				:
	Exj	posure time	Species	s	Evaluatio	on N	1ethod	Note
Skin corrosion/i	rritation: No avail	information able	rabbit	-		-		mild skin irritation
Serious irritation	n to eyes: No avail	information able	rabbit	2	4 h	-		eye irritation



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Trade name:		FERRI REAGENT, VERHOEFF B					
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3		

Correl	tization						
	tization						
Skin sensitizatio	on:	INO INTORM	nation available.				
Respiratory sensitization:		No inform	nation available.				
Symp	toms rela	ated to ph	ysical, chemical	, and toxicologi	cal properties		
Oral exposure:		No kno	own specific syr	nptoms.			
Dermal exposu	re:	No kno	own specific syr	nptoms. May ca	use skin irritatioi	า.	
Inhalation expo	sure:	No kno	own specific syr	nptoms.			
Eye exposure:		No kno	own specific syr	nptoms. May ca	use mild eye irrit	ation.	
Repea	ated dose	e toxicity (subacute, subcl	nronic, chronic)			
	D	ose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No info availab	ormation lle	No information available	No information available	No information available	No information available	No informatior available
Subacute dermal	No info availab	ormation lle	No information available	No information available	No information available	No information available	No informatior available
Subacute inhalation	No info availab	ormation lle	No information available	No information available	No information available	No information available	No informatior available
Subchronic oral	No information available		No information available	No information available	No information available	No information available	No information available
Subchronic dermal	No information available		No information available	No information available	No information available	No information available	No informatior available
Subchronic inhalation	No information available		No information available	No information available	No information available	No information available	No informatior available
Chronic oral	No info availab	ormation le	No information available	No information available	No information available	No information available	No informatior available
Chronic dermal	No info availab	ormation lle	No information available	No information available	No information available	No information available	No informatior available



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Trade name:	FERRI REAGENT, VERHOEFF B						
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version: 3			

Chronic inhalation	No informatio available	No information available	No informatic available	on i	No information available	No information available	No information available	
SI	pecific target organ t	oxicity - repeated	d exposure (S	STOT-F	RE):			
		Specific ef	fects		Target org	Jan	Note	
Subacute oi	ral	No information a	available	No ir	nformation av	ailable	No information available	
Subacute de	ermal	No information a	available	No ir	nformation av	ailable	No information available	
Subacute in	halation	No information a	available	No ir	nformation av	ailable	No information available	
Subchronic	oral	No information a	available	No ir	nformation av	ailable	No information available	
Subchronic	dermal	No information a	available	No information available		ailable	No information available	
Subchronic inhalation N		No information a	available	No ir	No information available		No information available	
Chronic oral N		No information a	o information available		No information available		No information available	
Chronic der	mal	No information a	available	No ir	No information available		No information available	
Chronic inh	alation	No information a	information available		No information available		No information available	
		••• •	·. 1		••• \			
C	MR effects (carcinog	enicity, mutageni				o classificatio	n criteria are not	
C	arcinogenicity:		met.	on ava	liable uata, tii			
N	lutagenicity in-vitro:		Based met.	Based on available data, the classification criteria are not met.				
G	Genotoxicity:		met.					
Mutagenicity <i>in-vivo</i> :		met.						
Germ cell mutagenicity:		met.				n criteria are not		
R	eproductive toxicity:		Based met.	on ava	liable data, th	e classificatio	n criteria are not	
	ummary of evalua roperties:	tion of the Cl	MR No info	ormatio	on available			



SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trade name:	FERRI REAGENT, VERHOEFF B				
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3

11.2.	Information on other hazards:		
11.2.1.	Endocrine disrupting properties:		
	No known endocrine disrupting properties that affect human health.		
11.2.2.	Other informations:		
	-		

12.1.	Toxicity	ogical inform							
	hort-term)	Dose	Exposu time		Species	N	lethod	Evaluation	Note
Fish		LC ₅₀	96 hours	; –		-		-	-
Crustace	ea:	EC ₅₀	48 hours	-		-		-	-
Algae/a	quatic plar	nts: IC ₅₀	72 hours	-		-		-	-
Other o	rganisms	-	-	-		-		-	-
Chronic toxicity	(long-tern	n) Doza	Exposu time		Species	N	lethod	Evaluation	Note
Fish		LC ₅₀	96 hours	; –		-		-	-
Crustace	ea:	EC ₅₀	48 hours	-		-		-	-
Algae/a	quatic plar	nts: IC ₅₀	72 hours	-		-		-	-
Other o	rganisms	-	_	-		-		_	-
12.2.		nce and degrad	lability						
	-	legradation						Frank and an	NI-+-
	L	Degradation ha	lit-lives		Method			Evaluation	Note
Marine water	No	information av	ailable	No information available		able	No information available		-
Fresh w	ater No	information av	ailable	No information available		able	No information available		-
Air No information available		ailable	No info	ormation avail	able	No information available		-	
Soil No information available		No information available		able	No information available		-		
	1			:					i
	Biodegra	adation							
					lethod		Evaluatio		



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Trade na	name:					FERRI REAGENT, VERHOEFF B							
Product code: FRV-		-OT-X**		Date of	compilat	tion:	14	November	2022	,	Version:	3	
No information available available		No information available		No information available		-							
12.3.	Bioaccur Octanol-		•		iont (log	Kow							
Value			ration	pH	°C		ethod		Evaluat	ion		Note	
No informat available	No ion avai		nation	-	-	No info availabl	ormatio	on	No informa available		-		
	Bioconc	entrat	ion Facto	or (BCF)									
Val			Speci			Method			Evaluation			Note	
No infor available		No ii avail	nformati able	on		informatio lable	n		o information vailable	n	-		
	Chronic												
	Chronic	ecoto	oxicity	Eve									
	Value		Dose		oosure ime	Spee	cies		Method	Εv	aluation	No	ote
Chronic	toxicity or	ı fish	LC ₅₀	availa	mation able	No informa availabl		av	formation vailable	avai	rmation lable	-	
	toxicity or a (Daphni		EC ₅₀	No inforr availa	mation able	No informa availabl		1	o formation vailable		rmation lable	-	
12.4.	Mobility	in soi	1										
· · ·	-			stributio	n in envi	ronmenta	l comp	oartm	nents:				
	Surface t	tensio	n:										
	Value		°C		Concer	ntration		Method			Note		
	No No No information N		No ir availa		nation	-							



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Trade na	ade name: FERRI REAGENT, VERHOEFF B							
Product	code:	FRV-OT-X**	Date of comp	oilation:	14 N	lovember 2022	Version:	3
	,	:			:		:	
	Adso	rption / desorption	1	1		1		
Transpo	rt	A/D coefficient Henry's constant	log Kow	Evapor rate		Method	Note	
Soil-wate		No information available	No information available	No informat available		No information available	-	
Water-ai		No information available	No information available	No informat available		No information available	-	
Soil-air		No information available	No information available	No informat available		No information available	-	
			1	:		:	:	
12.5.	Resul	ts of PBT and vPvB as	sessment					
		substance/mixture cor						/e
	and t	oxic (PBT), or very per	sistent and very bi	oaccumul	ative (v	(PvB) at levels of 0.1%	6 or higher.	
12.6.		crine disrupting prope			· .			
		ubstance/mixture doe erties according to RE						r
	• •	mission Regulation (El				5	-, - ,	
12.7.	Othe	r adverse effects						
	No in	formation available						
SECTION	N 13. C	Disposal consideration	ons					
13.1.	Waste	e treatment methods						
13.1.1.		duct/Packaging dispo						
		mit for disposal to the tection.	e legal person auth	norized by	the M	inistry of Environmen	ital and Nature	
12 1 2	14/-		nations assertive	tolour				
13.1.2.		ste codes/waste desig posal must be made a			ns			
		Josai must be made a		regulatio				
13.1.3.	Was	ste treatment – releva	nt information:					



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Trade name:	FERRI REAGENT, VERHOEFF B				
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version: 3	

	No information available				
13.1.4.	Sewage disposal – relevant information:				
	Waste must not be disposed of into	o the sewage system.			
13.1.5.	Other disposal recommendations:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.				
13.1.6.	Relevant Community provisions:				
	-				
SECTIO	N 14. Transport information				
	Transporting/shipment by road (ADF	۶)			
UN num	nber: Not s	subject to transport regulations			
UN prop	per shipping name: -				
Trancna	art harard class(ac):				

UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment l	by rail (RID)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment l	by inland waterways (ADN)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment l	by sea (IMDG)
UN number:	Not subject to transport regulations



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Trade name:		FERRI REAGENT, VERHOEFF B				
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3	
			1			
UN proper shippir	ng name:	-				
Transport hazard o	class(es):	-				
Packing group:		-				
Environmental haz	zards:	-				
Special precaution	ns for user:	-				
	according to Annex II and the IBC code:	-				
Transpo	orting/shipment by air	(ICAO-TI/IATA-DGR)				
UN number:		Not subject to transport regulations				
UN proper shippir	וg name:	-				
Transport hazard o	class(es):	-				
Packing group:		-				
Environmental hazards:		-				
Special precautior	Special precautions for user:					
		·				
Further informatio	on: -					

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorisation and/or res	strictions on use				
	Authorisations:	-				
	Restrictions:	-				
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); 				



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Trade name:		FERRI REAGE	NT, VERHOEFF B	
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version: 3
Inform	ation according 199	9/13/EC about limitation of 6	emissions of volatile organi	c compounds (VOC-

	guideline)	
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assess	nent
	-	

SECTIO	N 16. C	Other information	
16.1.	Indica	ation of changes:	-
16.2.	Abbr acror	eviations and iyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
16.3.	-	terature references ource of data:	Manufacturer's MSDS file.
16.4.		ification and procedu /2008 (CLP)	re used to derive the classification for mixture according to Regulation (EC)
Classific	ation		Classification procedure
_			-
16.5.	Relev	ant H statements (nu	mber and full text)
		302	Harmful if swallowed.
		314	Causes severe skin burns and eye damage.
	H:	315	Causes skin irritation.
		319	Causes very serious eye irritation.
		412	Harmful to aquatic life with long lasting effects.
16.6.	Train	ing advice:	-



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Trade name:			FERRI REAGENT, VERHOEFF B				
Product code: FRV-OT-X**		FRV-OT-X**	Date of compilation:	14 November 2022	Version: 3		
16.7.	Further	information:	product)	rks different volumes (differ consequences in case of fai oper use of the product des	lure to comply with		

ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trade name:		HEMATOXYLIN, VERHOE	FF A		
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

SECT	ION 1: Identification o	of the substand	ce/mixt	ture and o	f the company/undertaking	
1.1.	Product identifier					
	Trade name:	HEMATOXYL	IN, VER	HOEFF A		
	Chemical name:	-				
	Catalogue number:	HEMV-OT-X*	**			
1.2.	Relevant identified us	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:			For use w	ith special staining kits.	
	Uses advised against	•		Only the i	identified uses are advised.	
Reason why uses advised against: medical device, registered at the Agency		uct is intended for use only as an <i>in vitro</i> diagnostic levice, registered at the Agency for Medicinal and Medical Devices and there is no reason to use er purposes.				
1.3.	Details of the supplie	r of the safety o	data she	eet		
	Supplier:		BioG	BioGnost Ltd.		
	Address:		Medj	Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Telefax:		+385	+385 1 2404039 <u>msds@biognost.hr</u>		
	E-mail of competent	person:	<u>msds</u>			
	National contact:		-			
1.4.	. Emergency telephone numbers					
	National Protection a	nd Rescue Dire	ectorate	:	112	
	Medical information:				+385 1 2348 342	
	Other information:				-	

SECTIO	ECTION 2. Hazards identification				
2.1.	Classification of the substan	ce or mixture			
2.1.1.	Classification according to R	egulation (EC) No	. 1272/2008 (CLP)		
	Hazard class and cate	gory code:		Hazard statement*:	
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazar	d-statements: see	e Section 16.		
2.2.	Label elements				
	Product identification:	HEMATOXYLI	N, VERHOEFF A		
	Identification number:	-			
	Authorisation number:	-			



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Trade name:	HEMATOXYLIN, VERHOEFF A				
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	Hazard pictograms:	GHS02
	Signal word:	Danger
	Warning statement:	H225 Highly flammable liquid and vapor.
	Precautionary statement:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Supplemental hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Proper	ties:
	No known endocrine disruptin	g properties
	Results of PBT and vPvB asse PBT or a vPvB.	essment : According to the results of its assessment, this substance is not a

SECTION 3. Co	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	80 - 100 %	ethanol	Flam. Liq. 2; H225	

SECT	SECTION 4. First aid measures				
4.1.	Description of first aid measu	res			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove all contaminated clothes/footwear. Thoroughly wash with water for at least 15 minutes.			
	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.			



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Trade name:	HEMATOXYLIN, VERHOEFF A				
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	Following swallowing:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.
	Self-protection of the first aider	-
4.2.	Most important symptoms and e	ffects, both acute and delayed
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following swallowing:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.
4.3.	Indication of any immediate med	ical attention and special treatment needed
	No information available	

SECT	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO2 Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2.	Special hazards arising from th	e substance or mixture			
	Hazardous byproducts of fire:	Incomplete combustion of the product.			
5.3.	Advice for firefighters				
	Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing).				
5.4.	Additional information				
	Cool endangered receptacles v not contaminate the environm	vith water spray. Collect contaminated fire fighting water separately. Do ent with extinguishing media.			

SECTION 6. Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
	Protective equipment:	Use personal protective equipment (see Section 8).	



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Trade name:	HEMATOXYLIN, VERHOEFF A				
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Self-contained open-circuit con heat dissipation (fireproof cloth	npressed air breathing apparatus, a set for protecting the body from ing).		
6.2.	Environmental precautions:			
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.			
6.3.	Methods and materials for cont	tainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials		
6.3.2.	Cleaning up:	Sawdust, sand, mineral adsorbents		
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). Do not use incompatible materials (see Section 10).		
6.4.	Reference to other sections			
	See Section 7 for information o	n safe handling.		
	See Section 8 for information o	n personal protection equipment.		
	See Section 13 for disposal info	rmation.		

SECTIC	SECTION 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any inc	ompatibilities			



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Trade	name:		HEMATOXYLIN, VEF	RHOEFF A			
Produ	ct code:	HEMV-OT-X**	Date of compilation:	Version: 3			
	Technical measures and storage conditions: Packaging materials:		Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.				
			Manufacturer's origin	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:		Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:		The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:		Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).				
7.3.	Specific e	end use(s)					
	Recomm	endations:	-				
	Industria	sector specific solutions:	-				

SECTION 8. Exposure controls/personal protection						
8.1. Control parameters						
Substance	CAS N	CAS No		Occupational exposure limit values/short term values		: Biological limit values
			рр	m	mg/m ³	
Ethanol	64-17-	5	100	0/-	1900/-	No information available
Substance:	-					
EC No:	-		CAS	No:	-	
DNEL						
Industrial						
Route of exposure:	Acute Acut		e	Chronic		Chronic
Route of exposure.	effect local	al effect system		effect local		effect systemic
Oral	-	-		-		-
Inhalation	1900 mg/m ³ (ethanol)	-		-		380 mg/m ³ (ethanol)
Dermal	-	-		-		343 mg/kg (ethanol)
Critical physical param	neters: solubility, f	ammability,	corrosiv	/ity:	-	
Consumer						
Route of exposure:	Acute	Acut		Chronic		Chronic
	effect local	effect sys	stemic	e	ffect local	effect systemic
Oral	-	-		-		87 mg/kg bw/day (ethanol)



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Trade n	ame:			HEMAT	HEMATOXYLIN, VERHOEFF A				
Product	t code:	HEMV-OT-X**		Date of compilation: 14 Nov 2022 Version:			Version:	3	
					1				
Inhalatic	on	950 mg/m ³ (ethanol)	-		-		114 mg/m ³	³ (ethanol)	
Dermal		-	-		-		206 mg/kg	(ethanol)	
PNEC									
Environr	mental prote	ection target		PNEC					
Fresh wa	ater			0.96 mg/l (ethanol)				
Freshwa	ter sedimen	ts		3.6 mg/kg	(ethanol)				
Marine v	water			0.79 mg/l (ethanol)				
Marine s	sediments			2.9 mg/kg	(ethanol)				
Food ch	ain			380-720 m	g/kg (ethanol)				
Microor	ganisms in s	ewage treatment		580 mg/l (e	ethanol)				
Soil (agr	icultural)			0.63 mg/kg	g (ethanol)				
Air				no information available					
8.2.	Exposure	controls							
8.2.1.	Appropriate engineering controls								
	measures	e/mixture related to prevent exposu entified uses:	ire	Do not eat, o protective eo	drink or smoke in quipment.	the wo	rkspace. Use	personal	
	Structural measures to prevent exposure:			No information available					
	Organisat prevent e	ional measures to xposure:		Organization of work in order to reduce other worker's influence during work process.			nce		
	Technical exposure:	measures to preve	ent	See Section 7.2					
8.2.2.	Personal	protection equipm	ent						
8.2.2.1.	Eye and fa	ace protection:	of c	oncentration	it stick to face (El in air; protective levels of concent	gas mas	sk that cover		
8.2.2.2.	Skin prote	ection	L						
				otective gloves must be according to the EU Directive 2016/425/EEC d standard EN 374.			'EEC		
	Hand pro	tection:		Glove material: nitrile rubber					
					ckness: ≥0.50 mn				
				Break thr	ough time: >480	min			



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					I	ageronn			
Trade name:			HEMATOXYLIN, VERHOEFF A						
Product	code:	HEMV-OT-X**		Date of compilation:	14 Nov 2022	Version:	3		
	Other s	kin protection:	footv entire impe	ng everyday work use cotton vear, such as rubber boots (E e foot. In case of spilling haza rmeable material suitable for n, PVC, himex) and footwear	N 20345) or shoes th ard, use clothing ma protection from liqu	nat cover the de of uid chemicals			
8.2.2.3.	Respira	Respiratory protection: Protective full face mask (EN 136) or half mask (EN 140) equipped a filter for organic vapors, type "A" (boiling point >65°C) acording EN 14387) used when concentration levels exceed GVI.		°C) acording					
8.2.2.4.	Therma	l hazards:	No information available						
8.2.3.	Environ	mental exposure co	ntrols						

8.2.3.	Environmental exposure controls	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Section 6			
	Structural measures to prevent exposure:	Use modern equipment.			
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to prevent exposure:	See Section 6			

Information on basic physical and	l chemical properties	
	Value	Method
Physical state:	liquid	no information available
Colour:	brown red	no information available
Odour/odour threshold:	ethanol like/no information available	no information available
Melting point / freezing point:	no information available	no information available
Boiling point or initial boiling point and boiling range:	no information available	no information available
Flammability:	no information available	no information available
Lover and upper explosion limit:	no information available	no information available
Flash point:	15 °C	no information available
Auto-ignition temperature:	no information available	no information available
Decomposition temperature:	no information available	no information available
pH:	no information available	no information available
Kinematic viscosity:	no information available	no information available
Solubility:	no information available	no information available
Partition coefficient n- octanol/water (log value):	no information available	no information available
Vapour pressure:	No information available	no information available



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Trade name: Product code:		HEMATOXYLIN, VERHOEFF A						
		HEMV-OT-X**	Date of compilation:	14 Nov 2022 Version: 3				
	Density a	and/or relative density:	no information available	no information available				
	Relative	vapour density:	no information available					
	Particle characteristics:		no information available	no information available				
9.2.	Other inf	ormation						
	-							

SECTIO	SECTION 10.: Stability and reactivity		
10.1.	Reactivity:	The product is stable under normal working and storage conditions.	
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.	
10.3.	Possibility of hazardous reactions:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.	
10.4.	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.	
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.	
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.	

11.1. Inform	nation on hazard o	lasses as defined	in Regulation (E	C) No 1272/2008			
Acute	toxicity:						
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ o ATE _{mixture}	Exposure r time		Results	
Oral:	-	rat	LD ₅₀	-	7.060	mg/kg (ethanol)	
Dermal:	-	rabbit	LD ₅₀	-	>20.00	>20.000 mg/kg (ethanol)	
Inhalation:	-	rat	LC ₅₀	4 h (ethanol)	>8.000 mg/l (ethanol)		
Specific targ	et organ toxicity -	single exposure Specific effects	(STOT-SE):	Target orgar	1	Note	
Oral:	No informati	on available	١	lo information ava	ilable	-	
Dermal: No information available			٦	lo information ava	ilable	-	
Inhalation: No information available			٦	lo information ava	ilable	-	
			3			1	
	hazard:		No information				



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Trade name:		HEMATOXYLIN, VERHOEFF A						
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3			

Irritation ar	nd co	rrosion							
		Exposur	e time	Speci	es	Evaluation	Method	Note	
Skin corrosion/irritation		No informat available		No informat available		lo information vailable	No information available	-	
Serious eye damage/irritation		No informat available		No informat available		lo information vailable	No information available	-	
Sensitization									
Skin sensitizatio		No infor	mation	available					
Respiratory sensitization:		No infor	mation	available					
Symptoms re	elated	l to the phy	sical, ch	emical and to	xicological c	haracteristics			
Oral exposure: ser		sensation; In case of	higher l vomiting	evels of conc	entration ma causes cougl	ay cause nausea,	on in the mouth, bu abdominal pain a eathing. Higher lev	nd vomiting	
				•	•	otion effects are sation of skin.	not likely. Long-te	rm exposure	
Inhalation exposure:			tion of large amounts of vapors in inadequately ventilated perimeter may cause ing, sneezing, headache and nausea.						
Eye exposure:		Direct eye sensation.		may cause sl	ight to mod	erate irritation, la	acrimation and bur	ning	
Repeated do	se to:	xicity (suba	cute, sul	ochronic, chro	onic)				
1		Dose	Expo	osure time	Species	Method	Evaluation	Note	
Subacute oral	No ral information available		No availat	information ble	No information available	No information available	No information available	-	
Subacute dermal	No information available		No availat	information ble	No information available	No information available	No information available	-	
Subacute inhalation available		No availat	information ble	No information available	No information available	No information available	-		
Subchronic oral		ormation ailable	No availat	information ble	No information available	No information available	No information available	-	



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Trade name:	HEMATOXYLIN, VERHOEFF A						
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3		

Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

Specific target organ tox	cicity - repeated exposure (STOT-RE	Ξ):	
	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	-

Carcinogenicity:	No information available
Mutagenicity <i>in-vitro</i> :	No information available
Genotoxicity:	No information available
Mutagenicity <i>in-vivo</i> :	No information available
Germ cell mutagenicity:	No information available
Reproductive toxicity:	No information available
Summary of evaluation of the CMR properties:	No information available



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Trade name:	HEMATOXYLIN, VERHOEFF A								
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3				
11.2. Informat	tion on other hazards:								

11.2.1.	Endocrine disrupting properties:
	No known endocrine disrupting properties that affect human health.
11.2.2.	Other informations:
	-

SECTION 12.	Ecological inf	ormation						
12.1. Toxic	city							
Acute (short- term) toxicity	Dose	Exposure time	Species	Met	hod	Evalu	ation	Note
Fish	LC ₅₀	96 hours	Fish	No info avail		8.140 mg/l (ethanol)		-
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available		7.800 mg/	'l (ethanol)	-
Algae/aquatic plants:	IC ₅₀	72 hours	algae	No information available		5.000 mg/	'l (ethanol)	-
Other organisms	-	-	-	-		-		-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method		Evaluation		Note
Fish	LC ₅₀ 96 hours No available No information available			No information available		-		
Crustacea:	EC ₅₀	48 hours	No information available	No infor available		No information available		-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available		No informa available	ation	-
Other organisms	-	-	-	-		-		-
	stence and deg							
ADIO	tic degradation		NA 11				N 1	4-
<u>,, ,</u>	Degradatio	on half-lives	Metho			uation	Nc	te
Marine water	No informatio	n available	No informatio available	on	No infor available		-	



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Trade name	9:			H	EMATOXYLIN,	VER	HOEFF A			
Product cod	de:	HEMV-OT	-X**	Da	ate of compilat	ion:	14	Nov 2022	Version:	3
Fresh water	No i	nformation a	vailable	No inf availat	ormation ble	_	information _			
Air	No i	nformation a	vailable	No inf availat	ormation ole		informati ilable	on -		
Soil	No i	nformation a	vailable	No inf availat	ormation ple		informati ilable	on _		
Biodegrac	lation									
% Degradat	ion	Time (d	ays)	١	Method		Evaluatio	on	Note	
-	-			-		-		-		
		cumulative po								
		ol-water part								
Value			⊢ °C	Methoo		Eval	uation	Note		
-			-	-		-	-			
Value No information available		ation Factor (Spec Io informatio	ies	e No inf	Method ormation availat	ble	EvaluationNoteNo information available-			•
Chronic ed	cotovi	city								
Value		Dose	Expos	ure time	Species	N	lethod	Evaluation	Not	e
Chronic toxic on fish	city	LC ₅₀		rmation	No information available	No infc	ormation ilable	No information available		-
Chronic toxic on crustacea (Daphnia)		EC ₅₀	No info availabl	rmation e	No information available	-	ormation ilable	No information available	-	
12.4. Mo	bility				available			available		



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Trade r	ame:			ŀ	HEMA	TOXYLIN, \	/ERHO	EFF A		
Produc	t code:	HEMV-	-OT-X**	C	Date c	of compilatio	n:	14 N	ov 2022	Version: 3
	Surface t	ension [.]								
	Va			°C	Concentration Method			thod		Note
	No information available				No i avail	nformation able	No inforn availa	nation ble	-	
Adso	rption / de	sorption								
Transpo	rt	A/D coeffi lenry's cor		log Kov	N	Evaporation	n rate	Ν	lethod	Note
Soil-Wa	ter No availa	information able		No informa available	ation	No informat available	ion	No inf availat	ormation ple	-
Water-A	ir No availa	information able		No informa available	ation	No informat available	ion No inf availa		ormation ble	-
Soil-Air	No availa	information ailable		No informa available	ation	No information available		No information available		-
12.5.			vPvB asses data, the p		s not c	contain any PE	BT or vF	₽vB subs	tances.	
12.6.		•	ng propert data, does		n endo	crine disruptc	ors.			
12.7.	Othor ad	verse effe	ctc							
12.1.			are expect	ted.						
SECTIO		osal cons	ideration	-						
13.1.	_	eatment m		>						
13.1.1.	Product	/Packagin	g disposal:							
		for dispos	• •		author	ized by the M	inistry o	of Enviro	onmental a	nd Nature
13.1.2.	Waste c	odes/wast	te designat	tions accord	ing to	Low:				



SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

		1	-	-			F	Page 14 of 1	7
Trade name:			HEMATOXYLIN, VERHOEFF A						
Product	code:	HEMV-OT-X**		Date of co	ompilation:	-	14 Nov 2022	Version:	3
13.1.3.	Waste tr	eatment – relevant i	nformatior	า:					
	No infor	mation available							
12.1.4	~		c						
13.1.4.	3.1.4. Sewage disposal – relevant inWaste must not be disposed				(ctom)				
	vvaste n	lust not be disposed		e sewage s	/stem.				
13.1.5.	Other di	sposal recommenda	tions:						
Do not dispose of the produ authorized by the ministry in the packaging to the collected			n charge. D	o not dispo	ose of the pac	kaging			
13.1.6. Relevant Community pr		t Community provisio	ons:						
	Disposal must be made accord			fficial regul	ations.				
SECTION	N 14. Tran	sport information							
Trar	sporting/s	shipment by road (Al	DR)						
UN num	ber		1170	1170					
UN prop	er shippin	g name:	Ethanol solution						
Transpo	rt hazard c	lass(es):	3						
Packing	group:		II						
Environn	nental haz	ards:	No information available						
Special p	precaution	s for user:	-						
Trar	sporting/s	shipment by rail (RID))						
UN num	ber:		1170						
UN prop	er shippin	g name:	Ethanol solution						
Transpoi	rt hazard c	lass(es):	3						
Packing	group:		П						
Environn	nental haz	ards:	No information available						
Special precautions for user:		-							
Trar	sporting/s	shipment by inland w	vaterways	(ADN)					
UN num		•	1170						
UN proper shipping name: E		Ethanc	Ethanol solution						
	rt hazard c		3						
Packing		· - · ·							
-	nental haz	ards:		No information available					
	precaution		-						
		shipment by sea (IMI							



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Trade name:		HEMATOXYLIN, VERHOE	FF A		
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-
Transporting/shipment by air (ICAO-	TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Further information:	

SECTIO	ECTION 15. Regulatory information			
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorisation and/or restriction	ons on use		
	Authorisations:	-		
	Restrictions:	-		



				ded by Regulation (EO) No. 20		age 16 of 17	
Trade name:			HEMATOXYLIN, VERHOEFF A				
Produ	ct code:	HEMV-OT	-X**	Date of compilation:	14 Nov 2022	Version: 3	
	roduct code: HEMV-OT-X** Other EU regulations:		18 Re ar D 93 D 20 of pu Cu sa Re 10 m ar	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of			
			1999/13/	EC about limitation of emissions of	volatile organic cor	npounds (VOC-	
	dang National legislation: biolo wast			micals Act, Regulation on classification, packaging and labeling of gerous substances, Ordinance on occupational exposure limit values and on ogical limit values, Regulation on categories, types and classification of te with a waste catalog and list of hazardous waste, Ordinance on writing erial safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical	safety assess	ment				
	None						

SECTIO	SECTION 16. Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 			



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SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trade name:		HEMATOXYLIN, VERHOEFF A			
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

16.3.	Key literature references and source of data:					
16.4.	Classification and proce 1272/2008 (CLP)	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classific	ation	Classification procedure				
_		-				
16.5.	Relevant H statements	(number and full text)				
	H: 225	Highly flammable liquid and vapor.				
16.6.	Training advice:	-				
		** "X" in the product code marks different volumes (different packaging of the product)				
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.				

ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trading name:		IODINE SOLUTION, V	ERHOEFF C		
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

1.1	Product identifier	Product identifier					
	Trading name: IODINE SOL		UTION, V	UTION, VERHOEFF C			
	Chemical name:	-					
	Catalogue number:	JODV-OT-X	**				
1.2	Relevant identified uses of the substance or mixture and uses advised against						
	Uses:		For use	with special staining kits.			
	Uses advised against:		Only the	identified uses are advised.			
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.				
1.3	Details of the supplier	Details of the supplier of the safety data sheet					
	Supplier:	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997				
	Telefax.:		+385 1 2404039				
	e-mail of competent p	person:	msds@biognost.hr				
	National contact:		-				
1.4	Emergency telephone	Emergency telephone number					
	National Protection ar	nd Rescue Dire	ectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	N 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard statements*:					
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-	statements: see S	SECTION 16			
2.2	Label elements					
	Product identification:	IODINE SOLUTION, VERHOEFF C				
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	-				



Page 2 of 16 Trading name: **IODINE SOLUTION, VERHOEFF C** JODV-OT-X** 3 Product code: Date of compilation: 21 Dec 2022 Version:

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	rties:
	No known endocrine disrupti	ng properties
	Results of PBT and vPvB ass PBT or a vPvB	sessment: According to the results of its assessment, this substance is not a

SECTION 3. Co	mposition/inform	nation on ingredie	ents	
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
-	-	-	Contains no hazardous substances	-

SECTI	ION 4. First aid measures	
4.1	Description of first aid measures	
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.
~	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.
	Self-protection of the first aider:	-
4.2	Most important symptoms and ef	fects, both acute and delayed
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.



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Trading name: IODINE SOLUTION, VERHOEFF C					
Product code: JODV-OT-X**		Date of compilation:	21 Dec 2022	Version:	3
Following skin contact:		According to our findings, cl properties of the substance			

	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				
4.3	Indication of any immediate medical attention and special treatment needed					
	-					

SECTIO	SECTION 5. Firefighting measures					
5.1	Extinguishing media					
	Suitable extinguishing media:	water spray, dry powder, CO ₂ or alcohol resistant foam				
	Unsuitable extinguishing media: Water with full jet					
5.2	Special hazards arising from the substance or mixture					
	Hazardous combustion products: no information available					
5.3	Advice for firefighters					
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.					
5.4	Additional information					
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.				

SECTIO	ON 6. Accidental release measu	ires				
6.1	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:Evacuate members of all non-essential personnel and the without protective equipment. Avoid breathing vapors and with skin and eyes. Do not smoke. Keep away from ignition					
	Mark the area using proper signs.					
6.1.2.	For emergency responders:					
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equ (see Section 8).					
6.2	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Protection and Rescue Directorate (NPRD) on 112.					
6.3	Methods and material for cont	ainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.				



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		ing name:	Trading name:
Product code:JODV-OT-X**Date of compilation:21 Dec 2022Version:	3	luct code:	Product code:

6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information: Secure proper ventilation. Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections				
	See Section 7 for information on safe handling.				
	See Section 8 for information	on personal protection equipment.			
	See Section 13 for disposal in	formation.			

SECTIO	DN 7. Handling and storage							
7.1	Precautions for safe handling							
7.1.1.	Protection measures							
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.						
	Measures to prevent aerosol and dust generatio	n:	Secure proper ventilation.					
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.					
	Other measures:		Protect against electrostatic charges.					
7.1.2.	Advice on general occupational hygiene:							
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.							
7.2	Conditions for safe storage, including any incom	patibilities						
	Technical measures and storage conditions:	Keep in tightly closed and upright set container well ventilated storage rooms at temperatures r from 15 to 25 °C. Protect from heat and direct s						
	Packaging materials:	Manufactu	urer's original packaging.					
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the cont tightly closed.						
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain Ily leads into sewage system. Secure proper n.					



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Trading name:		IODINE SOLUTION,	/ERHOEFF C		
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Expos	ure contro	ols/persc	onal pr	otect	tion				
8.1 Control pa	arameters								
						cupational exposure limit alues/short term values			ological limit values
					р	pm	mg/m³		
						-	-	-	
Substance name:	-	1		1					
EC No:	-	CAS No	:	-					
DNEL									
					Ind	ustrial			
Route of	Αςι	ıte		Acut	e	Chronic			Chronic
exposure:	effect	local	effe	ct sys	stemic	c effect local			effect systemic
Oral	-		-			-			
Inhalation	-		-			-			
Dermal	-		-			-	:	-	
Critical physical par	rameters: s	olubility,	flamm	abilit	y, corr	osivity:	-		
					Con	sumer			
Route of	Ad	cute		Acut	te		Chronic		Chronic
exposure:	effec	t local	effe	ct sys	stemic	c effect local			effect systemic
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-			-		-	
PNEC									
Environmental prot	tection tar	get				PNEC			
Fresh water					ļ	no information available			
Freshwater sedime	nts					no information available			
Marine water						no inform	nation available		
Marine sediments						no information available			



Page 6 of 16 Trading name: **IODINE SOLUTION, VERHOEFF C** Product code: JODV-OT-X** Date of compilation: 21 Dec 2022 Version: 3 Food chain no information available Microorganisms in sewage treatment no information available Soil (agricultural) no information available no information available Air 8.2 **Exposure** controls 8.2.1. Appropriate engineering controls Use the product in well ventilated rooms. Use personal Substance/mixture related measures to protective equipment. Do not eat, drink or smoke in the prevent exposure during identified uses: workspace. Structural measures to prevent In accordance with Section 7. exposure: Organisational measures to prevent Organization of work in order to reduce other worker's exposure: influence during work process. Secure proper workspace ventilation in order to keep Technical measures to prevent exposure: concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering. 8.2.2. Personal protection equipment Safety glasses that stick to face (EN 166) or visor in case of lower 8.2.2.1. Eye and face protection: levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air. 8.2.2.2 Skin protection The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Hand protection: Glove thickness: 0.40 mm Time until perforation: > 480 min During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the Other skin protection: entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material. Protective full face mask (EN 136) or half mask (EN 140) equipped 8.2.2.3. with a filter for organic vapors, type "A" (boiling point >65°C) Respiratory protection: acording to EN 14387) used when concentration levels exceed GVI. 8.2.2.4. Thermal hazards: No information available 8.2.3. Environmental exposure controls Substance/mixture related See Section 6 measures to prevent exposure:



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Trading name:	IODINE SOLUTION, VERHOEFF C				
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3
	3				,

Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

	Value	Method
Physical state:	liquid	No information available
Colour:	dark brown	No information available
Odour/odour threshold:	characteristic /no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n- octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

SECTION 10. Stability and reactivity			
10.1	Reactivity:	See subsections 10.3 through 10.5.	



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Tradir	Trading name: Product code: JODV-OT-X**		IODINE SOLUTION, VERHOEFF C				
Produ			Date of compilation:	21 Dec 2022	Version:	3	
10.2 Chemical stability:		The product is chemically stable under standard ambient conditions of storing and using (room temperature).					
10.3	Possibility	of hazardous reactions:	No information available				
10.4	Condition	s to avoid:	No information available				
10.5	Incompati	ble materials:	No information available				
10.6	Hazardou	s decomposition products:	No information available				

11.1 Inform	ation on hazard classes	as defined i	in Regu	lation (EC) No 12	72/2008		
Acute	toxicity:						
Route of exposure:	Method	Species	Do	ose LD ₅₀ /LC ₅₀ or ATE _{mix} Expos		time	Results
Oral:	No information available	-		information lable	_		_
Dermal:	No information available	-		information lable	_		-
Inhalation:	No information available	-		information lable	-		-
Specifi	c target organ toxicity		osure (S				
	•	Specific effects		Target organ			Note
Oral:		ormation available		No information available		-	
Dermal:	No information a	vailable		No information	available	-	
Inhalation:	No information a	vailable		No information	available	-	
Aspira	tion hazard:	Ν	o inforr	mation available.			
Irritatio	on and corrosion						
2	Exposure	time	Speci	ies Evaluat	ion Metho	d	Note
Skin corrosion/irritat	ion:	-		-	-	-	
Serious eye damage/irritatio	on -	-		-	-	-	
Sensiti	zation						
Skin sensitizatio		mation avail	able.				
Respiratory sen		mation avail					



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Trading name:		IODINE SOLUTION,	/ERHOEFF C		
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

Oral exposure:	No informati	on available.						
Dermal exposure	e: No informati	tion available.						
Inhalation expos	ure: No informati	on available.						
Eye exposure:	No informati	on available.						
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)					
	Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No information available	No information available	No information available	No information available	No information available	-		
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-		
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-		
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-		
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-		
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-		
Chronic oral	No information available	No information available	No information available	No information available	No information available	-		
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-		
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-		



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Trading name:			IOD	INE SOLUTION	, VERHOEFF C			
Product code:	JOI	DV-OT-X**	Date	of compilation:	21 Dec 2022	Version: 3		
Subacute oral		No information a		-	information available	-		
Subacute derma		No information a			information available	-		
Subacute inhalation No information availa		vailable	No	information available	-			
Subchronic oral No information		No information a	vailable		information available	-		
Subchronic dermal		No information a	vailable	No	information available	-		
Subchronic inhal	ation	No information a	vailable	No	information available	-		
Chronic oral		No information a	vailable	No	information available	-		
Chronic dermal		No information a	vailable	No	information available	-		
Chronic inhalation		No information a	vailable	No	information available	-		
CMR ef	ects (ca	rcinogenicity; mut	agenicity; r	eproductive toxic	ity)			
Carcino	Carcinogenicity: Mutagenicity <i>in vitro</i> :		Ва	sed on available	data, the classification	criteria are not met.		
Mutage			Ва	sed on available	data, the classification	criteria are not met.		
Genoto	kicity:		Ва	Based on available data, the classification criteria are not met.				
Mutage	nicity <i>in</i>	vivo:	Ва	Based on available data, the classification criteria are not met.				
Germ ce	ell muta	genicity:	Ва	Based on available data, the classification criteria are not m				
Reprod	uctive to	oxicity:	Ва	sed on available	data, the classification	criteria are not met.		
Summa propert	-	evaluation of	the CMR	Based on avail met.	able data, the classific	ation criteria are no		
11.2 Informa	tion on	other hazards:						
11.2.1. Endocri	ne disru	pting properties:		-				
compor disrupti Article regulati	The substance/mixture does not com- components considered to have endoced disrupting properties according to REA Article 57(f) or Commission Delegar regulation (EU) 2017/2100 or Commiss Regulation (EU) 2018/605 at levels of 0.19 higher.							
11.2.2. Other ir	ıformati	ons:		·				

SECTION 12. Ecological information							
12.1 Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	



available

available

SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading name:		IODINE SOLUTION, V	/ERHOEFF C		
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
12.2 Persistence a	nd degradab	ility				
Abiotic degra	dation					

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-
	·			
Biodeg	gradation	:		
% Degradati	on Time (days)	Method	Evaluation	Note
No information	No information	No information	No information	No information

available

available

available



Page 12 of 16 **IODINE SOLUTION, VERHOEFF C** Trading name: Product code: JODV-OT-X** Date of compilation: 21 Dec 2022 Version: 3 12.3 **Bioaccumulative potential** Octanol-water partition coefficient (log Kow) Value °C Concentration pН Method Evaluation Note _ _ _ _ _ Bioconcentration factor (BCF) Value Species Method Evaluation Note No information No information No information No information _ available available available available Chronic ecotoxicity Exposure Value Dose Species Method Evaluation Note time No No No No Chronic toxicity on fish LC₅₀ information information information information _ available available available available No No No No Chronic toxicity on EC₅₀ information information information information _ crustacea (Daphnia) available available available available 12.4 Mobility in soil Known or predicted distribution in environmental compartments: No information available Surface tension: °C Value Concentration Method Note No No No information No information information information _ available available available available



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Trading name:		IODINE SOLUTION, V	/ERHOEFF C		
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

Trancos	A /D								
Transpo	ort	efficient constant	log Kow	Evaporation rate	Method	Note			
Soil-wa	ter No available	information	No information available	No information available	No information available	-			
Water-a	air No available	information	No information No information available available	No information available	-				
Soil-air	No available	information	No information available	No information available	No information available	-			
12.5	Results of PBT ar	nd vPvB asses	sment						
	according to REA	ACH Article 5		onents considered to n Delegated regulat igher.					
12.6.	Endocrine disrup	Endocrine disrupting properties							
	according to REA	ACH Article 5		onents considered to n Delegated regulat igher.					
12.7	Other adverse ef	ffects							
	No further releva	ant informatio	on available.						
~~~~	N 13. Disposal co		-						
SECTIO	in 15. Dispusai C	onsideration	5						
	Waste treatme		5						
13.1	Waste treatme	nt methods							
13.1	Waste treatme Product/Packa	nt methods ging disposa	:	rized by the Ministr	y of Environmental	and Nature			
13.1	Waste treatme Product/Packa Submit for disp Protection.	nt methods ging disposal posal to the le	:	· · ·	y of Environmental	and Nature			
13.1	Waste treatme         Product/Packa         Submit for disp         Protection.         Waste codes/v	nt methods ging disposal posal to the le vaste designa	: egal person autho tions according to	· · ·					
13.1 13.1.1. 13.1.2.	Waste treatme Product/Packa Submit for disp Protection. Waste codes/v 15 01 10*: Pac	nt methods ging disposal posal to the le vaste designa kaging that co	: egal person autho tions according to ontains residual ha	D Law:					
13.1 13.1.1. 13.1.2. 13.1.3.	Waste treatme Product/Packa Submit for disp Protection. Waste codes/v 15 01 10*: Pack substances	ent methods ging disposal posal to the le vaste designa kaging that co ent – relevant	: egal person autho tions according to ontains residual ha	D Law:					
13.1 13.1.1. 13.1.2.	Waste treatment         Product/Packa         Submit for disp         Protection.         Waste codes/w         15 01 10*: Packa         substances         Waste treatment	ent methods ging disposal posal to the le vaste designa kaging that co ent – relevant n available	: egal person autho tions according to ontains residual ha information:	D Law:					



			nded by Regulation (EU) No.		ge 14 of 16	
Trading	name:		IODINE SOLUTION,	VERHOEFF C		
Product	code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3
	Waste r	nust not be disposed	of into the sewage system.			
	1	I				
13.1.5.	Other d	lisposal recommenda	tions:			
	authoriz	zed by the ministry in	ct's remains into the sewage syste charge. Do not dispose of the pa ors authorized by the ministry in c	ackaging into the sev		
13.1.6.	Relevan	nt Community provisi	ons:			
	Disposa	al must be made acco	rding to official regulations.			
SECTION	14 Tran	nsport information				
		ing/shipment by road				
UN numb	•	ing/shipment by too	Not subject to transport requ	lations		
UN prope		ng name.	-			
Transport	•••		-			
Packing g			-			
Environm	-	azardous [.]	-			
	-	is for user:	-			
		ing/shipment by rail	(RID)			
UN numb	•		Not subject to transport regu	lations		
UN prope		na name:	-			
Transport			-			
Packing g			-			
Environm		azardous:	-			
	-	s for user:	-			
		iterway transport (AD	N)			
UN numb			Not subject to transport requ	lations		
UN prope	er shippin	ng name:	-			
Transport	hazard o	class(es):	-			
Packing g	jroup:		-			
Environm	-	azardous:	-			
	-	s for user:	-			
		ing/shipment by sea	(IMDG)			
UN numb	-	<u> </u>	Not subject to transport regu	lations		
UN prope	er shippin	ig name:	-			
Transport			-			
Packing g			-			



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Trading name:	IODINE SOLUTION, VERHOEFF C				
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	1
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorization and/or rest	rictions of use		
	Authorizations:	-		
	Restrictions:	-		
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>		



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					I (	age to of to	
Tradir	ng name:			IODINE SOLUTION	I, VERHOEFF C		
Product code:		JODV-OT-X**		Date of compilation	: 21 Dec 2022	Version:	3
National le		legislation:	dange and or classifi Ordina	cals Act, Regulation on clarous substances, Ordinan n biological limit values, R cation of waste with a wa ance on writing Material s	ce on occupational ex egulation on categori ste catalog and list of	posure limit values, types and hazardous waste	ies e,
15.2	Chemical	safety assessment					
	NI						

None

SECTIO	ON 16. Other information	
16.1	Indication of changes:	•
16.2	Abbreviations and acronyms:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>
16.3.	Key literature references and source of data:	-
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)
Classif	ication	Classification procedure
-		-
16.5.	Relevant H statements (number	er and full text)
	H: -	-
16.6.	Training advice:	-
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trading name:	ORANGE G, 1% SOLUTION				
Product code:	ORG1-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

1.1	Product identifier					
	Trading name:	ORANGE G,	1% SOLU	TION		
	Chemical name:	-				
	Catalogue number:	ORG1-OT-X	(**			
1.2	Relevant identified use	es of the subst	tance or m	nixture and uses advised against		
	Uses:		For use v	with Movat kit.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance of	or mixture				
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and catego	ory code:	Hazard statements*:			
	Not identified as hazardous sub	ostance.	-			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	ORANGE G, 1%	SOLUTION			
	Identification number: -					
	Authorization number:	-				
	Hazard pictograms:	-				



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Trading name:		ORANGE G, 1% SO	ANGE G, 1% SOLUTION		
Product code:	ORG1-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	rties:
	No known endocrine disrupti	ng properties
	<b>Results of PBT and vPvB ass</b> PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

SECTION 3. Cor	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
-	-	-	Contains no hazardous substances	-			

SECTI	ION 4. First aid measures	
4.1	Description of first aid measures	
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.
	Self-protection of the first aider:	-
4.2	Most important symptoms and ef	fects, both acute and delayed
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.



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Trading name:	ORANGE G, 1% SOLUTION							
Product code:	ORG1-OT-X**	Date of compilation:	21 Dec 2022	Version:	3			

	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
4.3	Indication of any immediate	medical attention and special treatment needed			
	-				

SECTI	SECTION 5. Firefighting measures					
5.1	Extinguishing media					
	Suitable extinguishing media:	water spray, dry powder, CO ₂ or alcohol resistant foam				
	Unsuitable extinguishing media:	Water with full jet				
5.2	Special hazards arising from the substance or mixture					
	Hazardous combustion products:	no information available				
5.3	Advice for firefighters					
	Use a self-contained open-circuit c	ompressed air breathing apparatus and fireproof clothing.				
5.4	Additional information					
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.					

SECTIO	ON 6. Accidental release measu	ires			
6.1	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures: Mark the area using proper signs.				
6.1.2.	For emergency responders:				
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Na Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for cont	ainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			



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Trading name:	ORANGE G, 1% SOLUTION					
Product code:	ORG1-OT-X**	Date of compilation:	21 Dec 2022	Version:	3	

6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal in	formation.		

SECTIO	DN 7. Handling and storage						
7.1	Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.				
	Measures to prevent aerosol and dust generatio	Secure proper ventilation.					
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.					
	Other measures:		Protect against electrostatic charges.				
7.1.2.	Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.				
7.2	Conditions for safe storage, including any incompatibilities						
	Technical measures and storage conditions:	well ventil	eep in tightly closed and upright set containers in a ell ventilated storage rooms at temperatures ranging om 15 to 25 °C. Protect from heat and direct sunlight.				
	Packaging materials:	Manufactu	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.					
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain Ily leads into sewage system. Secure proper n.				



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	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Expo	sure contro	ols/perso	onal prote	ection			
8.1 Control p	arameters						
Substanc			upational exposure limit lues/short term values		Biological limit values		
					ppm	mg/m³	
-			-		-	-	-
	2						
Substance name:	-					1	
EC No:	-	CAS No	): -				
DNEL							
	1			Ind	lustrial		
Route of	Αςι	ıte	Ac	ute		Chronic	Chronic
exposure:	effect	local	effect systemic		effect local		effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
Critical physical pa	arameters: s	solubility,	flammabi	-		-	
				Со	nsumer		
Route of		cute		ute		Chronic	Chronic
exposure:	effec	t local	effect s	systemic	:	effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
PNEC							
Environmental pro	tection tar	get			PNEC		
Fresh water					no inform	nation available	
Freshwater sedime	ents				no information available		
Marine water					no inform	nation available	2
Marine sediments					no inform	nation available	



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Food chain	no information available
Microorganisms in sewage treatment	no information available
Soil (agricultural)	no information available
Air	no information available

8.2	Exposure controls							
8.2.1.	Appropriate engineering controls	5						
	Substance/mixture related measu prevent exposure during identifie		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.					
	Structural measures to prevent exposure:		In accordance with Section 7.					
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.					
	Technical measures to prevent ex	(posure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.					
8.2.2.	Personal protection equipment							
8.2.2.1.	Eye and face protection:	levels o	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.					
8.2.2.2.	Skin protection							
8.2.2.2.	Hand protection:		otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min					
	Other skin protection:	footwe entire f impern	everyday work use cotton clothing (EN 340) and suitable ar, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.					
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.					
8.2.2.4.	Thermal hazards:	No info	ormation available					
8.2.3.	Environmental exposure controls							
	Substance/mixture related measures to prevent exposure:	See Se	ction 6					



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Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	orange	No information available
	Odour/odour threshold:	no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2	Other information		

SECTIO	SECTION 10. Stability and reactivity							
10.1	Reactivity:	See subsections 10.3 through 10.5.						
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).						



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Trading name:			ORANGE G, 1% SOLUTION					
Product code: ORG1-OT-X**		ORG1-OT-X**	Date of compilation:	21 Dec 2022	Version:	3		
10.3	Possibility of hazardous reactions:		No information available					
10.4	4 Conditions to avoid:		No information available					
10.5	10.5 Incompatible materials:		No information available					
10.6	Hazardou	s decomposition products:	No information available					

11.1 Informa	ation on haza	ard classes	as defined ir	n Regu	ation (EC) No 1272/2	2008			
Acute t	oxicity:								
Route of exposure:	Me	thod	Species	Effe	ective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposur	e time	Results	
Oral:	No info availabl	rmation e	-	No	nformation available	-		_	
Dermal:	No info availabl	rmation e	-	No	nformation available	-		-	
Inhalation:	No info availabl	rmation e	-	No	nformation available	-		-	
Specifi	c target orga	n toxicity –	single expos	sure (S	TOT SE):				
		Specific	effects		Target orga	an		Note	
Oral:	No info	rmation av	ailable		No information avail	-			
Dermal:	No info	rmation av	ailable	No information available			-		
Inhalation:	No info	rmation av	ailable	No information available -					
Aspirat	ion hazard:		Nc	inforr	nation available.				
Irritatic	on and corros	sion							
		Exposure t	ime	Speci	es Evaluation	Method		Note	
Skin corrosion/irritat	ion:		-		-	-	-		
Serious eye damage/irritatic	on -		-		-	-	-		
Sensitiz	zation								
Skin sensitizatio	n:	No inforr	nation availa	ble.					
	sitization:	No infor	nation availa	hlo					



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Trading name:				ORANGE G,	1% SC		N		
Product code:		ORG1-OT-X** Date of compila		tion: 21 Dec 2022			Version:		
				F					(1)
Oral exposure:		No informati	on available.						
Dermal exposure	2:	No informati	on available.						
Inhalation expos	ure:	No informati	on available.						
Eye exposure:		No informati	on available.						
Repeate	ed dose	toxicity (sub		onic, chronic)					
		Dose	Exposure time	Species	Meth	od	Evaluation	Note	
Subacute oral	No availa	information ble	No information available	No information available	No infori availa	mation able	No informatio available	n -	
Subacute dermal	No availa	information ble	No information available	No information available	No infori availa	mation able	No informatio available	n -	
Subacute inhalation	No availa	information ble	No information available	No information available	No infori availa	mation able	No informatio available	n -	
Subchronic oral	No availa	information ble	No information available	No information available	No information available		No informatio available	n -	
Subchronic dermal	No availa	information ble	No information available	No information available	No infori availa	mation able	No informatio available	n -	
Subchronic inhalation	No availa	information ble	No information available	No information available	No infori availa	mation able	No informatio available	n -	
Chronic oral	No availa	information ble	No information available	No information available				n -	
Chronic dermal	ronic dermal No in availab		No information available	No information available	No infori availa	mation able	No informatio available	n -	
Chronic inhalation	informatio		information	No information available			No informatio available	n -	
Specific	target	organ toxicit		exposure (STOT	RE):				
Culture 1			Specific effe		NI * 1	Target c	-	Note	
Subacute oral			ition available				n available	-	
Subacute dermal	l	INO INFORMA	ition available		INO INI	ormatio	n available	-	



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Trading	g name:		0	RANGE G, 19	% SC	DLUTION		
Product code: C		ORG1-OT-X**	Date	te of compilation: 21 Dec 2022			Version:	3
Subacut	te inhalatio	n No information a	vailable	٦	No in	formation available	-	
Subchro	onic oral	No information a	vailable	٦	No in	formation available	-	
Subchro	onic dermal	No information a	vailable	٦	No in	formation available	-	
Subchro	onic inhalati	ion No information a	vailable	١	No in	formation available	-	
Chronic	oral	No information a	vailable	١	No in	formation available	-	
Chronic	dermal	No information a	vailable	١	No in	formation available	-	
Chronic	inhalation	No information a	vailable	٦	No in	formation available	-	
	CMR effec	cts (carcinogenicity; mut	agenicity; re	eproductive to	kicity)			
	Carcinogenicity:			sed on availabl	le dat	a, the classification	criteria are not	met.
	Mutagenicity in vitro:			Based on available data, the classification criteria are not met.				
	Genotoxicity:		Ba	Based on available data, the classification criteria are not met.				
	Mutageni	city <i>in vivo</i> :	Ba	Based on available data, the classification criteria are not met.				
	Germ cell	mutagenicity:	Ba	Based on available data, the classification criteria are not me				
	Reproduc	tive toxicity:	Ba	Based on available data, the classification criteria are not met.				
	Summary properties		the CMR	Based on av met.	ailabl	le data, the classific	ation criteria a	are not
11.2	Informatio	on on other hazards:						
11.2.1.	Endocrine	disrupting properties:						
	The subs	tance/mixture does no						
	•		s considered to have endocrine properties according to REACH					
		7(f) or Commission						
	regulation	n (EU) 2017/2100 or C	ommission					
	Regulation higher.	n (EU) 2018/605 at levels	s of 0.1% or					
11.2.2.	Other info	ormations:						
11.6.6.		innutions.						

SECTION 12. Ecologic	SECTION 12. Ecological information										
12.1 Toxicity											
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note					
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-					



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Trading name:	ORANGE G, 1% SOLUTION								
Product code:	ORG1-OT-X**	Date of compilation:	21 Dec 2022	Version:	3				

Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inforn availa	nation ble	-
Algae/aquatic p	olants	IC ₅₀	4 days	No information available	No information available	No inforn availa	nation ble	-
Other organism	าร	-	-	-	-	-		-
Chronic (long-t toxicity	erm)	Dose	Exposur time	e Species	Method	Eva	lluation	Note
Fish		LC ₅₀	96 hours	No information available	No information available	No inforn availa	nation ble	-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inforn availa	nation ble	-
Algae/aquatic plants		IC ₅₀	72 hours	No information available	No information available	No inforn availa	nation ble	-
Other organism	าร	-	-	-	-	-		-
	c degra	nd degradal			<b></b>			
	De	gradation h	alf-lives	Method	Evaluatio			Note
Marine water	No ir	nformation a	available	No information available	No informatio available	n	-	
Fresh water	No ir	nformation a	available	No information available	No information available		-	
Air	No ir	nformation a	available	No information available	No information available		-	
Soil	No ir	nformation a	available	No information available	No information available		-	
Biodec	gradatio	on						
	on	Time (	days)	Method	Evaluatio	n		Note
% Degradation	No information availableNo availableinformation available		No information	No informatio	n	No info	rmation	



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Trading name:		ORANGE G, 1% SC	LUTION		
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12.3	Bioaccumu	ulative p	potential								
	Octanol-w	ater pa	rtition coef	ficient	(log Kow	<i>י</i> )					
Value	e Coi	ncentra	tion	ρН	°C	M	ethod	Evalu	ation		Note
-	-		-		-	-		-		-	
	Bioconcen	tration	factor (BCF	:)							
V	alue		Species			Methoo	k	Evaluati	on		Note
No info		No		nation		ormatic	on	No informati	on	-	
availabl	e	availa	ble		availab	ole		available			
	Chronic ec	otoxici	ty						1		1
	Value		Dose		oosure ime	Spe	ecies	Method	Evalu	ation	Note
				No		No		No	No		
Chronic	toxicity on	fish	LC ₅₀	1	mation		mation	information	informa	ation	-
				avail	able	availa	able	available	availab	le	
Chronic	toxicity on			No		No		No	No		
	ea (Daphnia	)	EC ₅₀	infor avail	rmation information able available		information available	informa availab		-	
				avan		avanc		avallable	availab		
12.4	Mobility ir	n soil									
			ed distribu	tion in e	environm	nental c	compart	ments:			
	No inform						•				
	Surface te										
	Value		°C	C	oncentra	ation		Method			Note
	No	No	0	No	informa	tion	No inf	ormation			
	informatio		formation		ailable		availat		-		
	available	av	ailable								
		, .									
	Adsorption	n / desc	orption								



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Transpor	t A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wate	er No information available	No information available	No information available	No information available	-
Water-ai	r No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5	Results of PBT and vPvB asse	ssment			
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulation		
12.6.	Endocrine disrupting proper	ies			
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulation		
12.7	Other adverse effects				
	No further relevant informat	on available.			
SECTION					
	13. Disposal consideration	ns			
13.1	Waste treatment methods	15			
13.1	Waste treatment methods				
	-	ıl:	rized by the Ministry of	Environmental a	and Nature
13.1	Waste treatment methods Product/Packaging disposa Submit for disposal to the	ıl: legal person autho	· · ·	Environmental a	and Nature
13.1	Waste treatment methods Product/Packaging disposa Submit for disposal to the Protection.	il: legal person autho ations according to	o Law:		
13.1	Waste treatment methods Product/Packaging disposa Submit for disposal to the Protection. Waste codes/waste design 15 01 10*: Packaging that of	al: legal person autho ations according to contains residual ha	o Law:		



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## SAFETY DATA SHEET BIOGNOST[®] According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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13.1.4.	Sewage disposal – releva	int information:
	Waste must not be dispo	osed of into the sewage system.
1015	Other discosed recommend	
13.1.5.	Other disposal recomme	
	authorized by the minist	oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge.
13.1.6.	Relevant Community pro	ovisions:
	Disposal must be made a	according to official regulations.
SECTIO	N 14. Transport informati	
	Transporting/shipment by	
UN num	ıber:	Not subject to transport regulations
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by	rail (RID)
UN num	ıber:	Not subject to transport regulations
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Inland waterway transport	(ADN)
UN num	ıber:	Not subject to transport regulations
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by	sea (IMDG)
UN num		Not subject to transport regulations
	per shipping name:	-



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Trading name:	ORANGE G, 1% SOLUTION				
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Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

15.1	Safety, health and environ	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>



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Trading name:		ORANGE G, 1% S	OLUTION		
Product code:	ORG1-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessm	ent
	None	

SECTIO	N 16. Other information			
16.1	Indication of changes:	-		
16.2	Abbreviations and acronyms:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>		
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)		
Classifie	cation	Classification procedure		
-		-		
16.5.	Relevant H statements (numbe	er and full text)		
	H: -	-		
16.6.	Training advice:	-		
16.7.	Further information:	<ul> <li>** "X" in the product code marks different volumes (different packagings of the product)</li> <li>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</li> </ul>		

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:		ORANGE G, 1% S	OLUTION		
Product code:	ORG1-OT-X**	Date of compilation:	21 Dec 2022	Version:	3
-					



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Trade name:	<b>PHOSPHOTUNGSTIC ACID, 5% SOLUTION</b>				
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2022	Version:	5

1.1.	Product identifier					
	Trading name:	PHOSPH	HOTUNG	STIC ACID,	5% SOLUTION	
	Chemical name:	-				
	Product code:	FVK5-O	T-X**			
1.2.	Relevant identified u	ses of the	substan	ce or mixtu	ire and uses advised against	
	Uses:			For use w	vith special staining kits.	
	Uses advised against:			Only the	identified uses are advised.	
	Reason why uses advised agains		nst:	st: The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet					
	Supplier:	Supplier: Bio(		ioGnost Ltd.		
	Address:	Address:		Medjugorska 59, Zagreb		
	Telephone number:	Telephone number:		+385 1 2409997		
	Telefax:	Telefax:		+385 1 2404039		
	e-mail of competent	person:	msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone numbers					
	National Protection	and Rescu	ie Directo	orate:	112	
	Medical information				+385 1 2348 342	
	Other information:				-	

SECTIO	N 2. Hazards identification			
2.1.	Classification of the substance or mixture			
2.1.1.	Classification according to	Regulation (EC) No 1	272/2008 (CLP)	
	Hazard class and ca	tegory code:	Hazard statement*:	
	Skin Irr. 2		H315	
	Eye Irr. 2		H319	
2.1.2.	Additional information			
	-			
*For the	e full text of H and EUH phras	es see Section 16.		
2.2.	Label elements			
	Product identification: PHOSPHOTUNGSTIC ACID, 5% SOLUTION			
	Identification number:	Identification number: -		
	Authorisation number:	-		



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Trade name:	<b>PHOSPHOTUNGSTIC ACID, 5% SOLUTION</b>				
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2022	Version:	5

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation.
	Precautionary statement:	<ul> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308+P313 IF exposed or concerned: Immediately call a POISON CENTER or physician.</li> </ul>
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
		iting properties. tains no components considered to be either persistent, bioaccumulative istent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Co	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
12501-23-4/ 603-020-3/ -	-	4 - 5 %	phosphotungstic acid hydrate	Skin Corr. 1B; H314 Eye Dam. 1; H318	

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid me	Description of first aid measures			
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.			
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.			
	Following skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.			



Treat symptomatically.

#### SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trade r	name:		PHOSPHOTUNGST	C ACID, 5% SOLUTION		
Product code: FVK5-OT-X**		FVK5-OT-X**	Date of compilation:	14 November 2022	Version:	5
	Followi	ng eye contact:		r for several minutes. Remo ontinue rinsing. If eye irritati e.		s, if
	Followi	ng ingestion:	Never give anything by mo water.	outh to an unconscious pers	son. Rinse mouth	ו with
	Self-protection of the first aider		-			
4.2.	Most in	nportant symptom	s and effects, both acute and	delayed		
	Followi	ng inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following skin contact: Following eye contact: Following ingestion:		<ul> <li>According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.</li> <li>According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.</li> </ul>			ties
						ties
			According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
4.3.	Indicati	on of any immedia	te medical attention and spe	cial treatment needed		

SECTIC	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.			
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.			
5.2.	Special hazards arising from the su	bstance or mixture			
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit co containers exposed to fire with wat	ompressed air breathing apparatus and fireproof clothing. Cool closed er spray or vapor.			
5.4.	Additional information				
		ing due to increase in pressure. Remove sources of heat and nvironment with extinguishing media.			

SECTION 6. Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
	Protective equipment: Use suitable personal protective equipment (see Section 8).		



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Trade name:		PHOSPHOTUNGSTIC ACID, 5% SOLUTION							
Product code: FVK5-OT-X** Da		Date of compilation:	14 November 2022	Version:	5				
	Accident prevention methods:		<b>C</b> ¹	Evacuate members of all non-essential personnel and those members without protective equipment.					
	Emerge	ncy procedures:	Mark the area usir	Mark the area using proper signs.					
6.1.2.	For eme	mergency responders:							
	Use pro	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment							

	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).		
6.2.	Environmental precautions:		
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.		
6.3.	Methods and materials for containment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.	
6.3.2.	Cleaning up:	ing up: After removing the product, use water to wash the work space and used materials.	
6.3.3.	Other information: No information available.		
6.4.	Reference to other sections		
	-		

SECTIC	DN 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Refer to the manufacturer's recommendations.			
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. The	noroughly wa	ash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incor	npatibilities				
	Technical measures and storage conditions: well ver		ghtly closed and upright set containers in a ated storage rooms at temperatures om 15 to 25 °C.			
	Packaging materials: Manufa		urer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				



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FVK5-OT-X**	Date of compilation:	14 November 2022	Version:	5
	·			
F	VK5-OT-X**			VK5-OT-X** Date of compilation: 14 November 2022 Version: The storage must be made of hard material: floo

	Advices for storage equipment:	must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION								
8.1. Contr	rol pa	rameter	S					
Substance		CAS No			Occupational exposure limit values/short term values		Biological limit values	
					ppm	mg/m ³	3	
-			-		-	-		-
Substance:	-					1		
EC No:	-		CAS No:	-				
DNEL								
					Industrial			
Route of expos	sure.		ute effect ystemic		ic effect ocal	Chronic effect systemic		
Oral		-		-		-		-
Inhalation		-		-		-		-
Dermal		-		-		-		-
Critical physical	l para	meters:	solubility, fl	ammabil	ity, corrosivity:	-		
					Consumer			
Route of exposure		ute effect ystemic		ic effect ocal	Chronic effect systemic			
Oral		-		-		-		-
Inhalation		-		-		-		-
Dermal						-		
PNEC								
Environmental	prote	ction ta	rget		PNEC			



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Trade name:		PHOSPHOTUNGSTIC ACID, 5% SOLUTION				
Product code: FVK5-	DT-X**	Date of compilation:	14 November 2022	Version:	5	

Fresh water	No information available
Freshwater sediments	No information available
Marine water	No information available
Marine sediments	No information available
Food chain	No information available
Microorganisms in sewage treatment	No information available
Soil (agricultural)	No information available
Air	No information available

8.2.	Exposure controls			
8.2.1.	Appropriate engineering controls			
	Substance/mixture related measures to prevent exposure during identified uses:		Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to prevent exposure:		No information available	
	Organisational measures to preve exposure:	nt	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.	
8.2.2.	Personal protection equipment:			
8.2.2.1.	Eye and face protection:		Safety glasses tested and approved under appropriate standards such as EN 166(EU).	
8.2.2.2.	Skin protection:			
	Hand protection:		Handle with chemical resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.	
	Other skin protection:		No specific protective equipment required.	
8.2.2.3.	Respiratory protection:		Use when overexposure potential. Improper use of respirators is dangerous.	
8.2.2.4.	Thermal hazards:		No information available	
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:		Section 6	
	Structural measures to prevent exposure:	Use ı	modern equipment.	
	Organisational measures to prevent exposure:	•	ot the work process to the required working conditions of the splace.	



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Trade name:	<b>PHOSPHOTUNGSTIC ACID, 5% SOLUTION</b>						
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2022	Version:	5		

Technical measures to prevent exposure:

See Section 6

.1.	Information on basic physical	and chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	No information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	Other information		

SECTIO	SECTION 10.: Stability and reactivity		
10.1.	Reactivity:	Not reactive under normal conditions.	
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).	
10.3.	Possibility of hazardous reactions:	No information available.	



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Trade name: Product code:		PHOSPHOTUNGSTIC ACID, 5% SOLUTION								
		FVK5-OT-X** Date of co		mpilation: 14 November 2022		Version:	5			
<ul><li>10.4. Conditions to avoid:</li><li>10.5. Incompatible materials:</li></ul>			Contact with incompatible materials and temperature extremes. Strong oxidizers.							
10.6.	Hazardous decomposition products:			Does not decompose under normal conditions. During fire, thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (as asphyxiant as sufficien concentrations).						

	oxicological informati								
	nation on toxicological toxicity:	effects							
Route of exposure:	Method	Sp	ecies	Do LD ₅₀ /l	ctive ose _C ₅₀ or mixture	Exposu time	re	Results	
Oral:	No information available		-	inforn	lo nation lable	-		-	
Dermal:	No information available		-	inforn	lo nation lable	-		-	
Inhalation:	No information available		-	No information available		-		-	
Speci	fic target organ toxicity	- single e	xposure (ST	TOT-SE):	1		1		
	•	pecific effe	ects		Targe	et organ		Note	
Oral:	No information av				-		-		
Dermal:	No information av				-		-		
Inhalation:	No information av	ailable			-		-		
Aspira	ation hazard:		-						
Irritat	ion and corrosion								
	Exposu	re time	Specie	es	Evaluati	on N	1ethod	Note	
Skin corrosion/i	No inf	ormation	rabbit	-		-		mild skin irritation	
Serious irritation	n to eyes: No info available	ormation	rabbit	2	24 h	-		eye irritation	



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Trade name:	PHOSPHOTUNGSTIC ACID, 5% SOLUTION									
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2022	Version:	5					

Sensi	tization								
Skin sensitizatio	on: N	lo inform	nation available.						
Respiratory sensitization:	Ν	lo inform	mation available.						
Symp	toms relat	ed to ph	ysical, chemical	l, and toxicologi	cal properties				
Oral exposure:		No kno	own specific syr	nptoms.					
Dermal exposu	re:	No kno	own specific syr	nptoms. May ca	use skin irritatio	า.			
Inhalation expo	sure:	No kno	own specific syr	nptoms.					
Eye exposure:		No kno	own specific syr	nptoms. May ca	use mild eye irrit	ation.			
Repea	ated dose	toxicity (	subacute, subcl	hronic, chronic)	÷	ĩ	÷		
	Do	se	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	ubacute oral No informatio available		No information available	No information available	No information available	No information available	No information available		
Subacute dermal	No information available		No information available	No information available	No information available	No information available	No information available		
Subacute inhalation	No information available		No information available	No information available	No information available	No information available	No information available		
Subchronic No inform oral available			No information available	No information available	No information available	No information available	No information available		
Subchronic dermal	No info available		No information available	No information available	No information available	No information available	No information available		
Subchronic inhalation	No informatior available		No information available	No information available	No information available	No information available	No information available		
Chronic oral No information available			No information available	No information available	No information available	No information available	No information available		
Chronic dermal	No info available		No information available	No information available	No information available	No information available	No information available		



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Trade name:		PHOSPHOTUNGST	PHOSPHOTUNGSTIC ACID, 5% SOLUTION				
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2022	Version: 5			

Chronic inhalation	No information available	No information available	No informati available	on	No information available	No information available		No information available	
Spe	ecific target organ to	xicity - repeated	d exposure (	STO	Γ-RE):				
		Specific ef	fects		Target org	jan		Note	
Subacute ora	ז	lo information available		No information available		ailable	No information available		
Subacute der	mal 1	lo information available		No information available		ailable	No information available		
Subacute inha	alation 1	Io information a	available	Nc	information av	ailable		information ilable	
Subchronic o	ral 1	lo information a	available	Nc	o information av	ailable		information ilable	
Subchronic d	ermal 1	lo information a	available	No information available		ailable	No information available		
Subchronic inhalation		lo information available		Nc	No information available		No information available		
Chronic oral		No information available		Nc	No information available		No information available		
Chronic dermal		lo information available		No information available		ailable	No information available		
Chronic inhal	ation N	lo information available		No information available		ailable		information ilable	
CM	R effects (carcinoge	nicity mutageni	city reprod	uctive					
		menty, matagem	<b>3</b> 1	Based on available data, the classification criteria are no					
Car	cinogenicity:		met.	<ul> <li>met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> </ul>					
Mu	tagenicity <i>in-vitro</i> :								
Ger	notoxicity:		Based						
Mu	Mutagenicity <i>in-vivo</i> : Germ cell mutagenicity: Reproductive toxicity:			<ul><li>Based on available data, the classification criteria are not met.</li><li>Based on available data, the classification criteria are not met.</li></ul>					
Ger									
Rep				Based on available data, the classification criteria are not met.					
	nmary of evaluat perties:	MR No in	forma	ation available					



### SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trade name:	PHOSPHOTUNGSTIC ACID, 5% SOLUTION						
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2022	Version:	5		

11.2.	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	No known endocrine disrupting properties that affect human health.
11.2.2.	Other informations:
	-

12.1.	Toxicity								
Acute (s toxicity	hort-term)	Dose	Exposu time	Shacias		N	lethod	Evaluation	Note
Fish		LC ₅₀	96 hours	-		-		-	-
Crustace	ea:	EC ₅₀	48 hours	-		-		-	-
Algae/a	quatic plan [.]	:s: IC ₅₀	72 hours	-		-		-	-
Other o	rganisms	-	-	-		-		-	-
Chronic toxicity	(long-term	) Doza	Exposu time		Species	N	lethod	Evaluation	Note
Fish		LC ₅₀	96 hours	-		-		-	-
Crustace	ea:	EC ₅₀	48 hours	-		-		-	-
Algae/a	quatic plan [.]	:s: IC ₅₀	72 hours	-		-		-	-
Other o	rganisms	-	-	-		-		-	-
		:	:			i			
12.2.	Persisten	e and degrac	lability						
	Abiotic de	egradation							
	D	egradation ha	lf-lives		Method			Evaluation	Note
Marine water	No ii	nformation av	ailable	No information available		able	No info availab	ormation le	-
Fresh w	ater No in	nformation av	ailable	No inf	ormation avail	able	No info availab	ormation le	-
Air	No ii	nformation av	ailable	No inf	ormation avail	able	e No information available		-
Soil	No information available		No information available		No information available		-		
	Biodegra	dation							
									Note



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Trade nan	ne:				PH	HOSP	HOTUN	IGSTI	C AC	CID, 5% SO	LUTI	9	12 01 17	
Product c	ode:	FVK	5-OT-X*	*	Dat	e of o	compilat	ion:	14	November	2022	,	Version:	5
No information available		on	No information available			information lable		-						
12.3.	Bioaccum	nulativ	ve poten	tial										
	Octanol-	water	partition	n coeffi	cient	(log k	Kow)							
Value			ration	рН		°C		ethod		Evaluat			Note	
No informatio available		nform lable	nation	-	-		No info availabl		on	No informa available	ition	-		
	Bioconce	entrat	ion Facto	or (BCF)										
Valu	Je		Speci	es	Method		Evaluation			Note				
No inform available	nation	No ir availa	nformatio able	on		No information available		No information available		-				
	Chronic e	ecoto	vicity											
	Chionic			F۷	posu	ırρ								
\ \	Value		Dose	L	time		Spec	cies		Method	Eν	aluation	No	ote
Chronic to	oxicity on	fish	LC ₅₀		rmati lable		No informa availabl			o formation railable	No information available		-	
Chronic to crustacea			EC ₅₀		rmati lable		No informa availabl			o formation ^{vailable}	1	rmation ilable	-	
12.4.	Mobility	in soi												
1	Known o			stributio	on in	envir	onmenta	l com	oartm	nents:				
	Surface to	ensio	n:											
	Value		°C		Со	ncent	ration		N	1ethod			Note	
	No informati n availab	io ir	lo nformatio vailable	on		nform lable	nation		information ilable -		-			



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Trade na	de name: PHOSPHOTUNGSTIC ACID, 5% SOLUTION						
Product o	ode:	FVK5-OT-X**	Date of comp	oilation: 1	4 November 2022	Version: 5	
	Adsor	otion / desorption	1		1	1	
Transpor	t	A/D coefficient Henry's constant	log Kow	Evaporatio rate	on Method	Note	
Soil-wate		o information vailable	No information available	No informatior available	No information available	-	
Water-ai	No information r available		No information available	No informatior available	No information available	-	
Soil-air		o information vailable	No information available	No informatior available	No information available	-	
12.6.	Endocr The su proper Comm	xic (PBT), or very per ine disrupting prope bstance/mixture doe ties according to RE ission Regulation (El	erties es not contain com ACH Article 57(f) o	oaccumulativ ponents con r Commissio	ed to be either persistent ve (vPvB) at levels of 0.1% sidered to have endocrine n Delegated regulation (E higher.	o or higher. e disrupting	
12.7.		adverse effects					
		ormation available					
		sposal consideratio	ons				
13.1.	Waste	treatment methods					
13.1.1.	Subr	uct/Packaging dispo hit for disposal to the ection.		orized by the	e Ministry of Environmen	tal and Nature	
13.1.2.	Wast	e codes/waste desig	nations according	to Law:			
	Dispo	osal must be made a	ccording to official	regulations.			
13.1.3.	Wast	e treatment – releva	nt information:				



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Trade name:		PHOSPHOTUNGSTIC ACID, 5% SOLUTION						
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2022	Version:	5			

	No information available					
13.1.4.	Sewage disposal – relev	ant information:				
	Waste must not be disp	osed of into the sewage system.				
13.1.5.	Other disposal recomme	endations:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.					
13.1.6.	13.1.6. Relevant Community provisions:					
	-					
SECTION	N 14. Transport informati	on				
	Transporting/shipment b	y road (ADR)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing	group:	-				
Environn	nental hazards:	-				
Special p	precautions for user:	-				
	Transporting/shipment b	y rail (RID)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing	group:	-				
Environn	nental hazards:	-				
Special p	precautions for user:	-				
	Transporting/shipment b	y inland waterways (ADN)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing	group:	-				
Environn	nental hazards:	-				
Special p	precautions for user:					
	Transporting/shipment b	y sea (IMDG)				
UN num	ber:	Not subject to transport regulations				



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Trade name:		PHOSPHOTUNGST	C ACID, 5% SOLUTION	
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2022	Version: 5
UN proper shipping name:		-		
Transport hazard	class(es):	-		
Packing group:		-		
Environmental haz	zards:	-		
Special precaution	ns for user:	-		
•	according to Annex II and the IBC code:	-		
Transpo	orting/shipment by air	(ICAO-TI/IATA-DGR)		
UN number:		Not subject to transpo	rt regulations	
UN proper shippir	ng name:	-		
Transport hazard	class(es):	-		
Packing group:		-		
Environmental haz	zards:	-		
Special precaution	ns for user:	-		
Further informatic	on: -			

	ON 15. Regulatory inform	
15.1.	-	onmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorisation and/or re	strictions on use
	Authorisations:	-
	Restrictions:	-
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>



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Trade nam	e:	PHOSPHOTUNGSTIC ACID, 5% SOLUTION						
Product code:		FVK5-OT-X**	Date of compilation:	14 November 2022	Version: 5			

	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessme	ent

SECTIO	N 16. C	Other information				
16.1.	Indica	ation of changes:	-			
16.2.	acronyms:		<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>			
16.3.		terature references ource of data:	Manufacturer's MSDS file.			
16.4.		ification and procedu /2008 (CLP)	re used to derive the classification for mixture according to Regulation (EC)			
Classific	ation		Classification procedure			
_			-			
16.5.	Relev	ant H statements (nu	mber and full text)			
	H:	314 315 318 319	Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation.			
16.6.	Train	ing advice:	-			
16.7.	Further information:		"X" in the product code marks different volumes (different packaging of t product)			



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Trade name:	PHOSPHOTUNGSTIC ACID, 5% SOLUTION				
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2022	Version:	5

# ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trading name:	<b>REAGENT FOR DIFFERENTIATION, VERHOEFF</b>				
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

1.1.	Product identifier					
	Trading name:	REAGEN	REAGENT FOR DIFFERENTIATION, VERHOEFF			
	Chemical name:	-	-			
	Catalogue number:	RDV-OT-	RDV-OT-X**			
1.2.	Relevant identified use	es of the su	ubstance or mi	xture and uses advised against		
	Uses:		For use w	ith special staining kits.		
	Uses advised against:		Only the i	identified uses are advised.		
	Reason why uses advised against:		<ul> <li>The product is intended for use only as an <i>in vitro</i> diagnostic</li> <li>medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes</li> </ul>			
1.3.	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier: B		BioGnost Ltd	3ioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:	Telephone number: -		+385 1 2409997		
	Fax no.:		+385 1 24040	+385 1 2404039		
	e-mail of competent p	erson:	<u>msds@biogn</u>	msds@biognost.hr		
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection ar	ld Rescue [	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ON 2. Hazards identification						
2.1.	Classification of the substanc	e or mixture					
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and category code: Hazard statements*:						
	Not identified as hazardous substance						
2.1.2.	Additional information						
	-						
*For fu	II text of Hazard- and EU Hazar	d-statements: see S	Section 16				
2.2.	Label elements						
	Product identification:	REAGENT FO	R DIFFERENTIATION, VERHOEFF				
	Identification number:	Identification number: -					
	Authorization no.:	Authorization no.: -					
	Hazard pictograms:	-					



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Trading name:	<b>REAGENT FOR DIFFERENTIATION, VERHOEFF</b>			
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Signal word: -	
	Hazard statements: -	
	Precautionary statements: -	
	Further information: -	
2.3.	Other hazards	
	Endocrine Disrupting Properties:	
	No known endocrine disrupting properties	
	Results of PBT and vPvB assessment: According to the results of its	according this substance is not a

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index no. REACH Registration No		Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
10025-77-1/ 600-047-2/ -	-	1 - 2 %	ferric chloride hexahydrate	Acute Tox. 4; H302 Skin Irr. 2; H315 Eye Dam.1; H318			

SECTI	ON 4. First aid measures	
4.1.	Description of first aid meas	ıres
	General notes:	-
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to- mouth) and contact a physician.
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.
	Self-protection of the first a	der: Treat symptomatically.
4.2.	Most important symptoms a	nd effects, both acute and delayed
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.



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Tradin	ng name:	REAGENT FOR DIFFERENTIATION, VERHOEFF						
Product code: RDV-OT-X**			Date of compilation: 21 Dec 2022 Version: 4					
	Following eye contact: Following ingestion:		According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. According to our findings, chemical, physical and toxicological properties of					
4.3.	Tollowing ingestion.       the substance have not been entirely tested.         Indication of any immediate medical attention and special treatment needed							
	-							

SECTIO	ON 5. Firefighting measures	
5.1.	Extinguishing media	
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam
	Unsuitable extinguishing media:	water jet
5.2.	Special hazards arising from the su	ubstance or mixture
	Hazardous combustion products:	No information available
5.3.	Advice for firefighters	
	Use a self-contained open-circuit Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. fire with water spray or vapor.
5.4.	Additional information	
	Remove sources of heat and igniti Do not contaminate the environm	

SECTIC	ECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne				
	Protective equipment: Use personal protective equipment (see Section 8).				
	Accident prevention methods:Evacuate members of all non-essential personnel and the members without protective equipment. Remove all sources sparks and ignition. Do not smoke.				
	Emergency procedures: Mark the area using proper signs.				
6.1.2.	For emergency responders:				
	Wear protective equipment (s	ee Section 8).			
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



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Tradin	ng name:		<b>REAGENT FOR DIFFERENTIATION, VERHOEFF</b>					
Product code: RDV-OT-X**			Date of compilation: 21 Dec 2022 Version: 4					
6.3.2.	Cleaning	up:	mater in tigł ventil perso Protec	e possible, the substance c ial (sand, diatomaceous ea htly closed impermeable co ated storage rooms until d ns authorized by the Minis ction. After disposal of the ials with water.	arth, vermiculite). Pla ontainers. Store the lisposal. Submit for stry of Environmenta	ace the waste material substance in well disposal to the legal al and Nature		
6.3.3. Other information:		ormation:	-					
6.4.	Reference	e to other sections						
	-							

SECTIO	ON 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation	ion:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	vent	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.			
	Packaging materials:	Man	ufacturer's original packaging.			
	Requirements for storage rooms and vessels:	s: Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:	be re direc	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions:	and chen	not place the unused material in the storage room do not use empty containers for storing other nicals. Do not store with incompatible materials (see ion 9).			
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	itions: -				



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Trading name:	<b>REAGENT FOR DIFFERENTIATION, VERHOEFF</b>					
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

8.1. Control p	arameters							
Substance		CAS N			exposure limit t term values	Biological limit values		
				ppm	mg/m ³			
-		-		-	-	No information available		
Substance - name:								
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect loca	Chronic al effect systemic		
Oral	-		_		-	-		
Inhalation	-		-		-	-		
Dermal	-		-	-		-		
Critical physical pa	arameters:	solubility, fla	mmabili	ty, corrosivity:	rrosivity: -			
				Consumer				
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect loca	Chronic al effect systemic		
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
PNEC								
Environmental pro	otection tar	get		PNEC	PNEC			
Fresh water				No info	No information available			
Freshwater sedim	ents			No info	No information available			
Marine water				No info	No information available			
Marine sediments				No info	rmation availabl	le		
Food chain				No info	No information available			
Microorganisms i	n sewage tr	eatment		No info	rmation availabl	le		
Soil (agricultural)				No info	rmation availabl	le		
				No info	No information available			



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Trading name:	<b>REAGENT FOR DIFFERENTIATION, VERHOEFF</b>					
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

8.2.	Exposure controls					
8.2.1.	Engineering measures					
	mascurac to provent expocure		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to pr exposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	oment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) o visor.				
8.2.2.2.	Skin protection					
	Hand protection:		tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN ) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	ormation available			
8.2.3.	Environmental exposure of	controls				
	Substance/mixture related measures to prevent exposure:		See Section 6			
	Structural measures to prevent exposure:		Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pre exposure:	event	See Section 6			

SECTIO	SECTION 9. Physical and chemical properties					
9.1.	Information on basic physical and chem	nical properties				
	Value Method					



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Trading name:	<b>REAGENT FOR DIFFERENTIATION, VERHOEFF</b>					
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

	Physical state:	liquid	No information available
	Colour:	yellow	No information available
	Odour/odour threshold:	no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
2.	Other information		

SECTIO	ECTION 10. Stability and reactivity				
10.1.	Reactivity:	See subsections 10.3 through 10.5.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	No information available			
10.4.	Conditions to avoid:	No information available			
10.5.	Incompatible materials:	No information available			
10.6.	Hazardous decomposition products:	No information available			

SECTIO	SECTION 11. Toxicological information					
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008					
	Acute toxicity:					



# SAFETY DATA SHEET **BIOGNOST**[®] According to Regulation (EC) No. 1907/2006

	a	mended by Re	gulation (EU)	No.	2020/8	878	Page 8 of 16
Trading name:		REAGENT FOR		ΙΑΤΙΟ	ON, VEF	RHOEF	
Product code:	RDV-OT-X**	Date of o	compilation:	npilation: 21 Dec 2		2 Version: 4	
			1				1
Route of exposure:	Method	Species		Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}		ure time	e Results
Oral exposure:	No information available	-	LD ₅₀	LD ₅₀		-	-
Dermal exposure:	No information available	-	LD ₅₀			-	-
Inhalation exposure:	No information available	-	LC ₅₀			-	-
Specific tar	get organ toxicity – s	single exposure (	STOT SE):				
	Speci	fic effects	Targe	et org	an		Note
Oral exposure:	No informatior	No information available		No information available		-	
Dermal exposure:	No information available		No inform available	No information available		-	
Inhalation exposure	: No information	No information available		No information available		-	
Respiratory	rirritation:	No infor	mation availab	le			
Irritation ar	nd corrosion						
	Exposure time	Species	Eval	uatio	n	Met hod	Note
Skin irritation:	-	-	-			-	-
Eye irritation:	-	-	-			-	-
Sensitizatio	n						
Dermal exposure:	nal exposure: No information available						
Inhalation exposure:	No information available						
Symptoms	related to the physic	al, chemical and	toxicological cl	naract	eristics		
Oral exposure:	No information available						
Dermal exposure:	No information a	available					
Inhalation exposure	: No information a	available					
Eye exposure:	posure: No information available						



**REAGENT FOR DIFFERENTIATION, VERHOEFF** 

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Trading name:	
Product code:	RDV-OT-X**

Date of compilation: 21 Dec 2022

Version: 4

	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No informatic available	No information available	No informatio available	n -
Subacute dermal	No information available	No information available	No informatic available	No information available	No informatio available	ın -
Subacute inhalation	No information available	No information available	No informatic available	No information available	No informatio available	n -
Subchronic oral	No information available	No information available	No informatic available	No information available	No informatio available	n -
Subchronic dermal	No information available	No information available	No informatic available	No information available	No informatio available	ın -
Subchronic inhalation	No information available	No information available	No informatic available	No information available	No informatio available	n -
Chronic oral	No information available	No information available	No informatic available	No information available	No informatio available	ın -
Chronic dermal	No information available	No information available	No informatic available	No information available	No informatio available	n -
Chronic inhalation	No information available	No information available	No informatic available	No information available	No informatio available	n -
Cassifia						
Specific	target organ toxicit	pecific effects		Target or	nan	Note
Subacute oral		ation available		No information av	-	-
Subacute dermal		ation available		No information av		-
Subacute inhalat		ation available		No information av		-
Subchronic oral		ation available		No information av		_
Subchronic derm		ation available		No information av		-
Subchronic inhal		ation available		No information av		-
Chronic oral	No informa	ation available		No information av		_



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Trading	g name:		REAGENT FOR	R DIFFERENT	IATION, VERHO	EFF
Produc	t code:	RDV-OT-X**	Date of compilation:		21 Dec 2022	Version: 4
Chronic dermal No informati		No information	n available	No inforn	nation available	-
Chronic	inhalation	No informatior	n available	No inforn	nation available	-
	Carcinoge Mutageni Genotoxic Mutageni Germ cell Reproduc	city in-vitro:	Based on availal Based on availal Based on availal Based on availal Based on availal Based on availal	ole data, the cl ole data, the cl ole data, the cl ole data, the cl ole data, the cl	y) assification criteria assification criteria assification criteria assification criteria assification criteria	are not met. are not met. are not met. are not met.
11 0	1.6					
11.2		on on other hazards:				
11.2.1.	The sub contain have end according Commission 2017/2100	ostance/mixture do components consid locrine disrupting p to REACH Article on Delegated regular 0 or Commission Re 8/605 at levels of	es not ered to roperties 57(f) or tion (EU) egulation			
11.2.2.	Other info	ormations:				
	-					

SECTION 12. Ecologi	SECTION 12. Ecological information										
12.1. Toxicity											
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note					
Fish	LC ₅₀	96 hours	No information available	No information available	-	-					
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-					
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-					



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Trading name:	<b>REAGENT FOR DIFFERENTIATION, VERHOEFF</b>						
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

Microorganisms	LC ₅₀	72 hours	-	-	_	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

#### 12.2. Persistence and degradability

Abio	tic degradation			
	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

#### Biodegradation

% Degradation	Time (days)	Method	Evaluation	Note
No information available	No information available	No information available	No information available	No information available

#### 12.3. Bioaccumulative potential

Partition coefficient: n-octano	ol/water (log Kow):
---------------------------------	---------------------

Value	Concentration	рΗ	°C	Method	Evaluation	Note
-	No information available	-	-	No information available	No information available	-



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Trading name:	REAC	GENT FOR DIFFERENTI	ATION, VERHOEFI	F
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

			factor (BCF)		1		1			
١	Value		Species			thod	Evaluation		Not	e
No information No available avail		No availa		information No in availa		nation	No information available		No information availabl	
	Chronic	ecotoxici	ty							
	Value		Dose		osure ime	Species	Method		Evaluation	Note
Chroni	c toxicity o	n fish	LC ₅₀	No	mation i	No nformation available	No information available	1	information ailable	-
	c toxicity o cea ( <i>Daphn</i>		EC ₅₀	No infor availa	mation i	No nformation available	No information available	1	information ailable	-
		mation a	vailable			ntal compart				
	Surface t	ension:							1	
	Surface t Value No informat	ension:	°C o formation	No	oncentratic informatic iilable	on	Method		- No	te
	Surface t Value No	ension:	°C 0	No	informatio	on No inf	Method			te
	Surface t Value No informat	ension:	°C o formation vailable	No	informatio	on No inf	Method			te
Transp	Surface t Value No informat available Adsorpti	ension:	°C o formation vailable orption fficient	No ava	informatio	on No inf availal	Method			te
Transp Soil-wa	Surface t Value No informat available Adsorpti	ension: Na ion int av on / deso A/D coe Henry's c	°C o formation vailable orption fficient	No ava	informatio hilable og Kow	on No inf availal Evap	Method formation ple		-	Note
•	Surface t Value No informat available Adsorpti	ension: Na ion int av on / desc A/D coe Henry's c ilable	°C o formation vailable orption fficient constant	No ava lc No ir availa	informatio hilable og Kow hformation able hformation	on No inf availal Evap No inform	Method Formation ole		- Method No information	Note -



### SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading	name:		REAGENT FOR DIFFERENT	IATION, VERHO					
Product	code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4				
12.5.		PBT and vPvB assessm							
	according		contain components considere ) or Commission Delegated reg els of 0.1% or higher.						
12.6.	Endocrine	disrupting properties							
	according		contain components considere ) or Commission Delegated reg els of 0.1% or higher.						
12.7.	Other adve	erse effects							
	No inform	ation available							
SECTION	13 Disp	osal considerations							
13.1.		eatment methods							
13.1.	waste ti								
13.1.1.	Product/Packaging disposal:								
	Submit f Protectic		al person authorized by the Mir	nistry of Environmer	ntal and Nature				
13.1.2.	Waste co	odes/waste designatio	ons according to Law:						
	No infor	mation available							
13.1.3.	Wasto tr	eatment – relevant inf	formation:						
13.1.3.		mation available							
13.1.4.	Sewage	disposal – relevant inf	ormation:						
	Waste m	nust not be disposed c	of into the sewage system.						
13.1.5.	Other di	sposal recommendation	ons:						
	authoriz the pack	ed by the ministry in c	's remains into the sewage syst harge. Do not dispose of the part s authorized by the ministry in a	ackaging into the s	ewage system. Submit				
13.1.6.	Relevant	Community provisior	าร:						



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Trading name: <b>REAGENT F</b>			GENT FOR DIFFERENT	IATION, VERHO	EFF	
Product code:	RDV-OT-X**		Date of compilation:	21 Dec 2022	Version:	4
SECTION 14. Tran	nsport information					
Transport	ting/shipment by roa					
UN number:		Not	subject to transport reg	ulations.		
UN proper shippir	ng name:	-				
Transport hazard o	class(es):	-				
Packing group:		-				
Environmentally h	azardous:	-				
Special precaution	is for user:	-				
Transport	ting/shipment by rai	I (RID)				
UN number:		Not	subject to transport reg	ulations.		
UN proper shippir	ng name:	-				
Transport hazard o	class(es):	-				
Packing group:		-				
Environmentally h	azardous:	-				
Special precaution	is for user:	-				
Inland wa	aterway transport (Al	DN)				
UN number:		Not	subject to transport reg	ulations.		
UN proper shippir	ng name:	-				
Transport hazard o	class(es):	-				
Packing group:		-				
Environmentally h	azardous:	-				
Special precaution	is for user:	-				
Transport	ting/shipment by sea	a (IMDG)				
UN number:		Not	subject to transport reg	ulations.		
UN proper shippir	ng name:	-				
Transport hazard o	class(es):	-				
Packing group:		-				
Environmentally h	azardous:	-				
Special precaution	is for user:	-				
Transport	ting/shipment by air	(ICAO-T	I/IATA-DGR)			
UN number:		Not	subject to transport reg	ulations.		
UN proper shippir	ng name:	-				
Transport hazard o	class(es):	-				
Packing group:		-				
Environmentally h	azardous:	-				



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Trading name:	<b>REAGENT FOR DIFFERENTIATION, VERHOEFF</b>			
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4
Special precaution	ns for user:	-		
Further information	<b>NP:</b>			

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or restrictions of use				
	Authorizations:	-			
	Restrictions:	-			
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use or organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>			
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)				
	National legislation: Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessme	ent			
	None				

SECTIO	ON 16. Other information	
16.1.	Indication of changes:	-



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Tradin	ng nar	ne:		REA	GENT FOR DIFFERENT	IATION, VERHO	EFF		
Produ	ct coo	de:	RDV-OT-X**		Date of compilation:	21 Dec 2022	Version:	4	
16.2. Abbreviations and acronyms:		route Good IMDC IATA: GHS: EINEC CAS: DNEL LC50 LD50 PBT:	ADR: Accord relatif au transport international des marchandises dangereuses paroute (European Agreement Concerning the International Carriage of Dangerou Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative						
16.3.	Key literature references and source of data:			-					
16.4.			ion and procedure ( 3 (CLP)	used to	derive the classification fo	r mixture according	g to Regulation	n (EC)	
Classifi	ication	n		Classific	Classification procedure				
-				-					
16.5.	Rele	evant H	l statements (numb	per and f	ull text)				
	H:	302 315 318		Harmful if swallowed. Causes skin irritation. Causes serious eye damage.					
16.6.	Trai	ning a	dvice:	-					
16.7.	Furt	t Further information:			n the product code marks duct) not responsible for conse ions for use or improper u l safety data sheet.	quences in case of	failure to com	ply with	

#### **ANNEX:**

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Exposure scenario resulting to Chemical safety assessment



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION			
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

SECTI	ON 1. Identification of t	he substa	ince/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Trading name:	SODIUM	1 THIOSULFATE	THIOSULFATE, 5% SOLUTION		
	Chemical name:	-				
	Catalogue number:	NT5-OT	DT-X**			
1.2.	Relevant identified use	s of the su	ubstance or mix	xture and uses advised against		
	Uses:		For use with	special staining kits.		
	Uses advised against:		Only the ider	ntified uses are advised.		
	Reason why uses advis against:	The product is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes		ered at the Agency for Medicinal Products and Medical		
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection an	d Rescue	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ON 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Reg	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and categ	Hazard class and category code: Hazard statements*:					
	Not identified as hazardous substance						
2.1.2.	Additional information						
	-	-					
*For fu	ll text of Hazard- and EU Hazard-	-statements: see S	ection 16				
2.2.	Label elements						
	Product identification:	SODIUM THIC	OSULFATE, 5% SOLUTION				
	Identification number:	-					
	Authorization no.:	Authorization no.: -					
	Hazard pictograms:	-					



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION			
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	Endocrine Disrupting Proper	ties:
	<b>Endocrine Disrupting Proper</b> No known endocrine disruptin	

SECTION 3. Co	ECTION 3. Composition/information on ingredients					
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
7772-98-7/ 231-867-5/ -	-	5 %	sodium thiosulphate	not classified		

4.1.	Description of first aid meas	ures			
	General notes:		-		
	Following inhalation:		Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to- mouth) and contact a physician.		
	Following skin contact: Following eye contact: Following ingestion:		Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.		
			Rinse out with plenty of water with the eyelid held wide open usir clean fingers. If the symptoms remain, immediately call a physicia		
			Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.		
	Self-protection of the first a	ider:	Treat symptomatically.		
4.2.	Most important symptoms a	ects, both acute and delayed			
	Following inhalation:		rding to our findings, chemical, physical and toxicological properties of ubstance have not been entirely tested.		
	Following skin contact:	rding to our findings, chemical, physical and toxicological properties of ubstance have not been entirely tested.			



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Trading name:			SODIUM THIOSULFATE, 5% SOLUTION				
Product code: NT5-O1		NT5-OT-X**		Date of compilation:	21 Dec 2022	Version:	4
Following eye contact:       According to our findings, chemical, physical and toxicological protection         Following ingestion:       According to our findings, chemical, physical and toxicological protection         Following ingestion:       According to our findings, chemical, physical and toxicological protection		•					
4.3.	Indication	of any immediate	e medical	attention and special treat	tment needed		
	-						

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the su	ubstance or mixture			
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit of Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. fire with water spray or vapor.			
5.4.	Additional information				
	Remove sources of heat and igniti Do not contaminate the environm				

SECTIO	ON 6. Accidental release meas	ıres		
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Wear protective equipment (s	ee Section 8).		
6.2.	Environmental precautions:			
	Do not dispose of in sewage, Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.		
6.3.	Methods and material for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		



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### SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading name: Product code: NT5-OT->			9	ODIUM THIOSULFATI	E, 5% SOLUTION	- ruge r	
		NT5-OT-X**		Date of compilation:	21 Dec 2022	Version:	4
6.3.2.	Cleaning	up:	mater in tigh ventila persor Protec	e possible, the substance of ial (sand, diatomaceous ea itly closed impermeable co ated storage rooms until d ns authorized by the Minis ction. After disposal of the ials with water.	arth, vermiculite). Pla ontainers. Store the lisposal. Submit for stry of Environmenta	ace the waste substance in disposal to th al and Nature	material well e legal
6.3.3.	Other info	ormation:	-				
6.4.	Reference	e to other sections					

SECTIO	ON 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.				
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.				
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).				
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				



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Trading name:		SODIUM THIOSULFATE	, 5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTION 8. Exposu	re contr	ols/persona	al protec	tion			
8.1. Control par	ameters						
Substance					al exposure limit ort term values	Biological limit values	
				ppm	mg/m ³		
-		-		-	-	No information available	
Substance _ name: _							
EC No: -		CAS No:	-				
DNEL							
				Industrial			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-				-	-	
Critical physical para	meters: s	solubility, fla	ammabilit	ty, corrosivity:	-		
				Consumer			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
PNEC							
Environmental prote	ction tar	get		PNEC	PNEC		
Fresh water				No info	No information available		
Freshwater sedimen	ts			No info	rmation available		
Marine water				No info	No information available		
Marine sediments				No info	No information available		
Food chain				No info	No information available		
Microorganisms in sewage treatment				No info	rmation available		
Soil (agricultural)				No info	rmation available		
					No information available		



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Trading name:	S	ODIUM THIOSULFATE	, 5% SOLUTION	
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to pr exposure:	revent	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equi	oment				
8.2.2.1.	Eye and face protection:	n: Safety glasses that stick to face (preventing splashing) visor.				
8.2.2.2.	Skin protection					
	Hand protection:		tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter f	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN ) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	ormation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture relate measures to prevent exp	-	See Section 6			
	Structural measures to pr exposure:	revent	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pr exposure:	event	See Section 6			

SECTION 9. Physical and chemical properties			
9.1.	9.1. Information on basic physical and chemical properties		
		Value	Method



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION			
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	Other information		

SECTIO	SECTION 10. Stability and reactivity			
10.1.	Reactivity:	See subsections 10.3 through 10.5.		
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.		
10.3.	Possibility of hazardous reactions:	No information available		
10.4.	Conditions to avoid:	No information available		
10.5.	Incompatible materials:	No information available		
10.6.	Hazardous decomposition products:	No information available		

SECTIO	DN 11. Toxicological information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
	Acute toxicity:



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Trading name:		SODIUM	THIOSULFATE	, 5% SOL	UTION	
Product code:	NT5-OT-X**	Date of	of compilation: 21 Dec 2022		2022	Version: 4
						1
Route of exposure:	Method	Species	Effective LD ₅₀ /LC ₅₀ or J		Exposur time	e Results
Oral exposure:	No information available	-	LD ₅₀		-	-
Dermal exposure:	No information		LD ₅₀		-	-
Inhalation exposure:	No information available		LC ₅₀		-	-
Specific tar	get organ toxicity – s	single exposure	(STOT SE):			
	Specific	effects	Target or	gan		Note
Oral exposure:	No information	ı available	No information available	n	-	
Dermal exposure: No information		available No information available		n	-	
Inhalation exposure	: No information	available No information available		n	-	
Respiratory	rirritation:	No info	ormation availab	le		
Irritation ar	nd corrosion					
	Exposure time	Species	Evaluatio	on	Meth od	Note
Skin irritation:	-	-	-			
Eye irritation:	-	-	-			
Sensitizatio	n					
Dermal exposure:	No information ava	ilable				
Inhalation exposure:	No information ava	ilable				
Symptoms	related to the physic	al, chemical and	d toxicological cl	naracterist	ics	
Oral exposure:	No information a	available				
Dermal exposure:	No information a	available				
Inhalation exposure	: No information a	available				
Eve exposure:	No information a	available				

Repeated dose toxicity (subacute, subchronic, chronic)



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Trading name:	S	ODIUM THIOSULFATE	, 5% SOLUTION	
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

Specific target organ toxicity – repeated exposure (STOT RE):							
	Specific effects	Target organ	Note				
Subacute oral	No information available	No information available	-				
Subacute dermal	No information available	No information available	-				
Subacute inhalation	No information available	No information available	-				
Subchronic oral	No information available	No information available	-				
Subchronic dermal	No information available	No information available	-				
Subchronic inhalation	No information available	No information available	-				
Chronic oral	No information available	No information available	-				
Chronic dermal	No information available	No information available	-				



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Trading name:	S	ODIUM THIOSULFATE,	5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Chronic	inhalation	No informat	ion available	No information available	-
	CMR effects (	carcinogenicity,	, mutagenicity, r	eproductive toxicity)	
	Carcinogenic	ity:	Based on av	ailable data, the classification criter	a are not met.
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criter	ia are not met.
	Genotoxicity:		Based on av	ailable data, the classification criter	a are not met.
	Mutagenicity	in-vivo:	Based on av	vailable data, the classification criter	a are not met.
	Germ cell mu	tagenicity:	Based on av	vailable data, the classification criter	ia are not met.
	Reproductive toxicity: Based on available data, the classification criteria a				a are not met.
11.2	Information of	on other hazard	s:		
11.2		srupting propert			
	The substa contain con have endocr according to Commission 2017/2100 o		does not sidered to properties le 57(f) or Jation (EU) Regulation		
11.2.2.	Other inform	ations:			
	5				

SECTION 12. Ecological information								
12.1. Toxicity								
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	No information available	No information available	-	-		
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-		
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-		
Microorganisms	LC ₅₀	72 hours	-	-	-	-		



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION					
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

# 12.2. Persistence and degradability

Abiotic degradation							
	Degradation half-lives	Method	Evaluation	Note			
Marine water	No information available	No information available	No information available	-			
Fresh water	No information available	No information available	No information available	-			
Air	No information available	No information available	No information available	-			
Soil	No information available	No information available	No information available	-			

#### Biodegradation % Degradation Time (days) Method Evaluation Note No information No No information No information No information information available available available available available

12.3.	Bioaccumulative poten	oaccumulative potential							
	Partition coefficient: n-octanol/water (log Kow):								
Valu	e Concentration	рН	°C	Method	Evaluation	Note			
-	No informatior available	1 -	-	No information available	No information available	-			
	·								
	Bioconcentration facto	r (BCF)							



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Va	Value Species		М	Method		Evaluation		Note	ļ	
No infor available		No availab	informati e	on No inform available	nation		No information available	No inf	ormation av	ailable
	Chronic e	ecotoxicity	,							
Value Dose		Dose	Exposure time	Sp	ecies	Method	Eva	luation	Note	
Chronic	Chronic toxicity on fish LC50		LC ₅₀	No information available	No infor availa	mation able	No information available	No inf availat	ormation ble	-
Chronic toxicity on crustacea ( <i>Daphnia</i> ) EC ₅₀		EC ₅₀	No information available	information information		No information available	No info availat	ormation ble	-	
	No inform Surface te	nation ava		on in environm		compart	ments.			
	Value		°C	Concentra	tion		Method	ethod Note		lote
	No informati available	ormation information Available -		-						
	Adsorptic	on / desor	ption							
Transpo	rt	on / desor A/D coeff Ienry's co	icient	log Kow		Evapo	ration rate		Method	Note
Transpo Soil-wat	rt F	A/D coeff lenry's co	icient	log Kow No informatio available		Evapo o inform vailable			ormation	Note -
	rt H er No avai ir No	A/D coeff lenry's co inf lable	icient nstant	No information	av on N	o inform	nation	No info availat	ormation ble ormation	Note - -



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- I:					Fage 15 01 10			
Trading name:			SODIUM THIOSULFATE	, 5% SOLUTION				
Product	code:	NT5-OT-X** Date of compilation: 21 Dec 2022 Version: 4						
		PBT and vPvB assessn						
			t contain components considere ) or Commission Delegated regi					
		n (EU) 2018/605 at lev		ulation (EO) 2017/2				
		· (_0) _0 · 0, 000 ut iot						
12.6.	Endocrine	disrupting properties						
			t contain components considere	ed to have endocrin	ne disrupting properties			
			) or Commission Delegated regi					
		n (EU) 2018/605 at lev						
12.7.	Other adv	erse effects						
	No inform	ation available						
SECTION	13. Disp	osal considerations						
13.1.	Waste tr	reatment methods						
	:							
13.1.1.	Product	Product/Packaging disposal:						
			al person authorized by the Mir	histry of Environme	ntal and Nature			
	Protectio	on.						
1717	\A/aata a							
13.1.2.		odes/waste designatio	ons according to Law.					
	No infor	mation available						
13.1.3.	Waste tr	reatment – relevant in	formation.					
		mation available						
	TTO IIIO							
13.1.4.	Sewage	disposal – relevant inf	formation:					
		Vaste must not be disposed of into the sewage system.						
	1		<u> </u>					
13.1.5.	Other di	sposal recommendati	ons:					
		•	's remains into the sewage syst	em. Submit the ren	nains to the collectors			
			charge. Do not dispose of the pa					
	•		s authorized by the ministry in o	charge. Do not disp	oose of in places where			
		may occur.						
13.1.6.	Relevant	t Community provision	ns:					
	-							



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Trading name:	S	ODIUM THIOSULFATE	5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTION 14. Transport information				
Transporting/shipment by road (	ADR)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by rail (R	ID)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
Special precautions for user:	-			
Inland waterway transport (ADN)	)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by sea (II	MDG)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by air (IC	AO-TI/IATA-DGR)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			



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Trading name:		SODIUM THIOSULFATE	E, 5% SOLUTION	
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4
Special precaution	ns for user:	-		
Further information	on: -			

Further information:

	EU regulations Authorization and/or rest Authorizations: Restrictions:	- -			
	Authorizations:	- -			
		-			
	Restrictions:	-			
		Description (EC) No 1007/2006 of the European Dediament and of the Council of			
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/92 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;</li> <li>Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>			
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessme	nt			

SECTION 16. Other information				
16.1.	Indication of changes:	-		



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Trading name:			SODIUM THIOSULFATE, 5% SOLUTION				
Produ	ct code:	NT5-OT-X**	Date of compilation: 21 Dec 2022 Version: 4				
16.2. Abbreviations and acronyms:		ions and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative				
16.3.	Key literat source of	ture references and data:	-				
16.4.	Classificat 1272/200	•	used to derive the classification for mixture according to Regulation (EC)				
Classifi	ication		Classification procedure				
_			-				
16.5.	Relevant I	H statements (numb	per and full text)				
	H: -		-				
16.6.	Training a	dvice:	-				
16.7.	Further in	formation:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.				

#### ANNEX:

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Exposure scenario resulting to Chemical safety assessment