

P.A.S. KIT

The kit contains:

BioSchiff reagent
HCL reagent, P.A.S.
Hematoxylin ML
Periodic acid, 0.8% solution
Sodium metabisulphite, solution



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

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Trading name:	BIOSCHIFF REAGENT					
Product code:	BS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

		he substance	e/mixture	and of the company/undertaking			
1.1	Product identifier	· *					
	Trading name:	BIOSCHIFF REAGENT					
	Chemical name:	-					
	Catalogue number:	BS-OT-X**	BS-OT-X**				
1.2	Relevant identified uses of the substance or mixture and uses advised against						
	Uses:		For dete	ecting aldehydes and mucous substances.			
	Uses advised against:		Only the	e identified uses are advised.			
	Reason why uses advis	sed against:	duct 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.				
1.3	Details of the supplier	of the safety	data shee	t			
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997				
	Telefax.:		+385 1 2404039 msds@biognost.hr				
	e-mail of competent p	erson:					
	National contact:		-				
1.4	Emergency telephone	number					
	National Protection an	d Rescue Dire	ectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	TION 2. Hazards identification					
2.1	Classification of the substan	ce or mixture				
2.1.1	Classification according to F	Regulation (EC) No 1	1272/2008 (CLP)			
	Hazard class and ca	egory code:	Hazard statements*:			
	-		EUH031			
2.1.2.	Additional information					
	-					
*For fu	ıll text of Hazard- and EU Haza	rd-statements: see	SECTION 16			
2.2	Label elements					
	Product identification:	BIOSCHIFF REA	AGENT			
	Identification number:	on number: -				
	Authorization number:	-				
	Hazard pictograms:	-				



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	Signal word:	-
	Hazard statements:	EUH031 Contact with acids liberates toxic gas.
	Precautionary statements:	P281 Use personal protective equipment as required.
	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. 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)				
7681-57-4/ 231-673-0/ 016-063-00-2	-	1 – 3 %	sodium metabisulfite	Acute Tox. 4; H302 Eye Dam. 1; H318 EUH031				
7647-01-0/ 231-595-7/ 017-002-01-X	-	0.7 – 1 %	hydrochloric acid, 36.5%	Skin Corr. 1B; H314 Acute Tox. 3; H331				

SECT	ON 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 oral cavity, drink 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



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	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 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 substance or mixture				
	Hazardous combustion products:	Sulfur oxides.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Do not contaminate the environment	ent with extinguishing media.			

SECTIO	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).				
	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, dra Protection and Rescue Directora	ainage system and waterways. In case of large spillage contact National lite (NPRD) on 112.				



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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 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:	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	See Section 8 for information on personal protective equipment.			
	See Section 13 for disposal in	formation.			

SECTIO	ON 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.			
	Measures to prevent aerosol and dust generation	n:	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:	well ventila	in tightly closed and upright set containers in a rentilated storage rooms at temperatures ranging 15 to 25 °C.			
	Packaging materials:		Manufacturer's original packaging. Avoid metal containers.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment: must b that dir		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.			



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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:	-

8.1 Co	ntrol par		ols/perso							
i i	Substance				•	ccupational exposure limit values/short term values		Biological limit values		
						ppm		mg/m³	J	
sodium metabisulfite		е	7681-57	7-4		-/-		5/-	No information available	
Substance r	name:	_								
EC No: -		_	CAS No	:	-					
DNEL		1								
						Industria	ıl			
Route of		Acı	ite		Acute			Chronic	Chronic	
exposure:		effect	local effect sys		ect syst	emic	ic effect local		effect systemic	
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-			-		-	
Critical phys	sical para	meters: s	olubility,	flamm	ability, d	corrosivit	y:	-		
					(Consume	er		1	
Route of		Acı			Acute		Chronic		Chronic	
exposure:		effect	local	eft	ect syst	emic		effect local	effect systemic	
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-			-		-	
PNEC						1				
Environmental protection target			PNEC							
Fresh water						nation available				
Freshwater sediments				No in	No information available					
Marine wate						No in	form	nation available		
Marine sedi	ments					No in	No information available			



Food chain

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No information available

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Microorganisms in sewage treatment			No information available		
Soil (agric	cultural)		No information available		
Air			No information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measure prevent exposure during identified		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 preven exposure:	t	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent expo	osure:	Secure proper workspace ventilation in order to keep		
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 levels of concentration in air; protective gas mask that coventire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
	Hand protection:	Protect	tive nitrile gloves, 0.11 mm thick (EN 374).		
	()ther skin protection:		ntistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 340) and shoes that cover the entire foot.		
8.2.2.3.	Respiratory protection:	combir	e mask (EN 136) or half mask (EN 140) equipped with a ned "A1 + Form" filter (EN 143) used when concentration 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 mo	odern equipment.		
	_	Adapt workpl	the work process to the required working conditions of the ace.		
	Technical measures to prevent exposure:	See Se	ction 6		



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Information on basic physical and	chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	sharp/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
рН:	<2	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

SECTIO	ECTION 10. Stability and reactivity				
10.1	Reactivity:	No information available			
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:	Strong oxidants (acids).			
10.6	Hazardous decomposition products:	Sulfur dioxide, sodium oxide.			



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11.1 Information	n on toxico	logical effects						
Acute toxic	ity:							
Route of exposure:	Method	ethod Species		Dose LD ₅₀ /LC ₅₀ or ATE _{mix}		time	Results	
Oral:	-	_		information lable	-		-	
Dermal:	-	_	1	information lable	-		-	
Inhalation:	-	-		information lable	-		-	
Specific tar	get organ	toxicity – single e	exposure (S	TOT SE):				
	Specific effects			Target or	gan		Note	
Oral: No information available				No information available		_		
Dermal:	No inforn	nation available		No information av	-			
Inhalation:	nhalation: No information available			No information available		-		
Aspiration l	hazard:		No infor	mation available.				
Irritation ar	nd corrosio	n						
		posure time	Spec	ies Evaluatio	n Method		Note	
Skin corrosion/irritation:	-	•	-	-	-	- -		
Serious eye damage/irritation	-		-	-	-	-		
Sensitizatio	n							
Skin sensitization:		No information a	available					
Respiratory sensitization: No information a		vailable						
Symptoms	related to	the physical che	mical and t	oxicological charac	teristics			
Oral exposure:	May ca	use gastrointesti	nal irritatio	n accompanied by	abdominal pa	ains and	cramps; high	
'		nt concentration	may induce	e vomiting and diar	rhea			



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Inhalation exposi	ure:	exposure and		y sensitive pers	high levels of co	•	rolonged as well as asthm
Eye exposure:		May cause ey	e irritation.				
Kepeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	-
Subacute dermal	No availa	information able	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 availa	information able	No information available	No information available	No information available	No information available	-
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic dermal	No availa	information able	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	-
C: C	to == 1	ongo to dell	., ", ", ", ", ", ", ", ", ", ", ", ", ",	VP 001/22 /CTOT	DE).		
Specific	target	organ toxicit	<u> </u>	xposure (STOT		raan	Note
Subacute oral		No informa	Specific effection available	.13	Target organ No information available -		
Subacute dermal			tion available		No information		
Subacute inhalat			tion available		No information		



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Subchronic oral	No information available		No information available	-			
Subchronic dermal	No information available		No information available	-			
Subchronic inhalatio	n 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	-			
CMR effects	(carcinogenicity; mutagenicity; re	eproductive t	oxicity)				
Carcinogen	city:	No informa	tion available				
Mutagenicit	y in vitro:	No informa	tion available				
Genotoxicit	/:	No informa	tion available				
Mutagenicit	y in vivo:	No informa	tion available				
Germ cell m	utagenicity:	No informa	tion available				
Reproductiv	e toxicity:	No information available					
Summary properties:	of evaluation of the CMR	No informa	tion available				
11.2 Information	on other hazards:						
11.2.1. Endocrine d	. Endocrine disrupting properties:						
	endocrine disrupting properties uman health.						
11.2.2. Other inform	nations:						
_							

SECTION 12. Ecologic	cal informat	ion				
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	-
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	-



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Other of	organisms		-	-	-		-	-		-	
Chroni toxicity	11000		Exposur time	e	Species	Method	Eva	aluation	Note		
Fish LC ₅₀ 96 h		96 hours		No information available No information available		No information available		-			
Crustacea:			EC ₅₀	48 hours	availahla		48 hours	No information available	No inforr availa	mation Ible	-
Algae/	aquatic pla	ints	IC ₅₀	72 hours		o information ailable	No information available	formation information		-	
Other organisms		-		-	-		-				
12.2	Persister	nce ar	nd degradal	oility							
	Abiotic o	degra	dation		:		,		:		
		De	gradation h	alf-lives		Method	Evaluation		Note		
Marine	water	No in	formation a	available	No in availa	formation ble	No information available		-	_	
Fresh v	vater	No in	formation a	available	No in availa	formation Ible	No informati available	on	-		
Air		No in	formation a	available	No in availa	formation able	No informati available	on	-		
Soil No information available			nformation No information available		on	_					

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

12.3	Bioaccumulative potential									
	Octanol-water partition coefficient (log Kow)									
Value	e Concentration	рН	°C	Method	Evaluation	Note				
-	-	-	-	-	-	-				



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								3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					
Bio	oconcent	ration	factor (BCF)										
Value			Species		M	lethod	l	E	/aluatio	on		Note	
No informa available	No information No inform		ation	No infor		n	No info		on	-			
Ch	nronic eco	otoxici	ty					,			·		
V	Value Dose		Dose		osure ime	Spe	ecies	Meth	nod	Eva	luation	N	ote
Chronic tox	kicity on f	fish	LC ₅₀	information		No inforr availa	mation Ible	No inform availab		No infor avail	mation able	-	
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	information ir		No inforr availa	mation lble		-		mation able	-		
12.4 M	obility in	soil											
Kr	nown or p	oredict	ed distributi	on in e	environme	ental c	ompart	ments:					
	o informa		vailable										
Su	ırface ten	sion:											
	Value		°C	C	oncentrat	ion	0 0 0 0 0	Metho	od			Note	
	o formatior railable		o formation vailable		informat iilable	ion	No inf availal		ormation -		-		
Ac	dsorption		•						***		-		
Transport	· ·		fficient constant	lc	og Kow	Eν	/aporati	on rate		Metho	d	No	te
Soil-water	No availa		nformation	No information available			o inform ailable	nation	No ir availa	nforma able	ation	-	
Water-air	No availa		nformation	No ir availa	nformatio able		No information available		No information available		ation	-	



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Soil-air	No information available	n No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB ass	sessment			
	Substance(s) in the mixture		criteria for PBT or	vPvB	
	· · · · · · · · · · · · · · · · · · ·				
12.6.	Endocrine disrupting prope	rties			
	The substance/mixture doe according to REACH Article Regulation (EU) 2018/605 a	57(f) or Commission	n Delegated regula		
12.7.	Other adverse effects				
	No information available				
SECTIO	N 13. Disposal consideration	ons			
13.1	Waste treatment method	s			
13.1.1.	Product/Packaging dispo	sal:			
	Submit for disposal to the Protection.	e legal person autho	rized by the Minist	ry of Environmental	and Nature
13.1.2.	Waste codes/waste desig	nations according to	Law:		
	Packaging that contains r	esidual hazardous sı	ubstances or is con	taminated with haza	rdous substances
13.1.3.	Waste treatment – releva	nt information:			
	No information available				
13.1.4.	Sewage disposal – releva	nt information:			
	Waste must not be dispo	sed of into the sewa	ge system.		
13.1.5.	Other disposal recommer	ndations:			
	Do not dispose of the pro authorized by the ministry the packaging to the coll	y in charge. Do not o	dispose of the pack	aging into the sewa	
13.1.6.	Relevant Community pro	vicione:			
15.1.0.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	VISIONS.			



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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:	-				
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:	-				



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Environmentally hazardou	JS:	-
Special precautions for user:		-
Further information:	-	

SECTI 15.1	ON 15. Regulatory informa					
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:	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 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				
15.2	Chemical safety assessme	ent				
	None					

SECTION 16. Other information			
16.1	Indication of changes:	-	



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

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Trading name:	BIOSCHIFF REAGENT				
Product code:	BS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

16.2	Abl	oreviations 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.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classif	icatio	า	Classification procedure			
_			-			
16.5.	Rel	evant H statements (numl	per and full text)			
	H:	H302	Harmful if swallowed.			
		H314	Causes severe skin burns and eye damage			
		H318	Causes serious eye damage.			
		H331	Toxic if inhaled.			
		(EUH031)	Contact with acids liberates toxic gas.			
16.6.	Tra	ining 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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Trading name:	HCL REAGENT, P.A.S.			
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4

SECTI	ION 1: Identification of	the substan	ce/mixture a	nd of the company/undertaking	
1.1.	Product identifier				
	Trading name:	Trading name: HCL REAGE			
	Chemical name:	-			
l	Catalogue number:	HCLP-OT-	HCLP-OT-X**		
1.2.	Relevant identified uses of the substance or mixture and uses advised against		ture and uses advised against		
	Uses:		For use wit	th special staining kits in histopathology.	
	Uses advised against:		Only the ic	lentified 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 supplie	r of the safet	y data sheet		
	Supplier:	I	BioGnost Ltd.	anost Ltd.	
	Address:	I	Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
			+385 1 240999	97	
	Fax no.:		+385 1 240999 +385 1 240403		
				39	
	Fax no.:	oerson:	+385 1 24040	39	
1.4.	Fax no.: e-mail of competent	person: <u>I</u>	+385 1 240403 msds@biogno	39	
1.4.	Fax no.: e-mail of competent National contact:	person:	+385 1 24040: msds@biogno -	39	
1.4.	Fax no.: e-mail of competent National contact: Emergency telephone	person:	+385 1 24040: msds@biogno -	39 ost.hr	

SECTIO	ECTION 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	I text of Hazard- and EU Hazard-sta	atements: see Se	ection 16			
2.2.	Label elements					
	Product identification:	HCL REAGENT	, P.A.S.			
	Identification number: -					
	Authorization no.:	-				
	Hazard pictograms:	-				



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Trading name:	HCL REAGENT, P.A.S.			
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Properties:	
	No known endocrine disrupting prop	erties.

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)
7647-01-0/ 231-595-7/ 017-002-00-2	-	0.7 - 1 %	hydrochloric acid	Skin Corr. 1B; H314 STOT SE 3; H335

SECTIO	ON 4. First aid measures	
4.1.	Description of first aid measur	res
	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 aid	er: Treat symptomatically.
4.2.	Most important symptoms an	d effects, both acute and delayed
	Following inhalation:	No information available
	Following skin contact:	No information available
	Following eye contact:	No information available



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Trading name:		HCL REAG	ENT, P.A.S.	
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4

	Following ingestion: No information available
4.3.	Indication of any immediate medical attention and special treatment needed
	-

SECTIO	FION 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 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	ures
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personne	el
	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	see 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 cor	ntainment and cleaning up
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.



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Trading name:		HCL REAG	ENT, P.A.S.	-
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4

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 section	ns
	See Section 8 for informa	ntion about secure handling. Ition about personal protective equipment. Ination about containment.

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	on: S	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. T	noroug	hly wash hands after work and before eating.
7.2.	Conditions for safe storage, including any incom	npatibi	lities
	Technical measures and storage conditions:	ventil	in tightly closed and upright set containers in a well ated storage rooms, and away from sources of heat, ght, and other incompatible substances.
	Packaging materials:	Manu	ıfacturer's original packaging.
	Requirements for storage rooms and vessels:		away from food and drink. Keep the containers y closed.
	Advices for storage equipment:	be red	torage must be made of hard material; floors must sistant to chemicals. There must be no drain that tly leads into sewage system. Secure proper ation.
	Further information on storage conditions:	and d	ot place the unused material in the storage room lo not use empty containers for storing other icals. Do not store with incompatible materials (see on 9).
7.3.	Specific end use(s)		



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Product code: HCLP-OT-X** Date of compilation: 14	4 November 2022 Version: 4	HCLP-OT-X** Date of	Product code:

Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8. I	Exposur	e contr	ols/persona	al protec	tion					
	trol para		, personi							
i			CAS N	No			exposure lii term value		Bio	ological limit values
Substance -					ppm	mg/m³				
		-	-		No infor	mation available				
Substance name:	-									
EC No:	-		CAS No:	_						
DNEL										
					Inc	dustrial				
Route of expo	osure:		Acute ect local	effe	Acutect sys			hroni ect lo		Chronic effect systemic
Oral		-	et local	-	et sys	territe	-		Cui	-
Inhalation		_		_			_			_
Dermal		_		_			_			_
Critical physic	al parar	neters: s	olubility. fla	ı mmabilit	tv. cor	rosivity:	_			
						nsumer				
		-	Acute		Acut	e	Cl	hroni	c	Chronic
Route of expo	osure:	effe	ect local	effect systemic		temic	effect local		cal	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC										
Environmenta	al proted	tion tar	get			PNEC				
Fresh water						No information available				
Freshwater sediments				No information available						
Marine water			No information available							
Marine sedim	nents					No infor	mation ava	ilable	9	
Food chain						No infor	mation ava	ilable	2	
Microorganis	ms in se	wage tr	eatment			No infor	mation ava	ilable	9	
Soil (agricultu	ıral)					No infor	mation ava	ilable	=	



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Trading name:		HCL REAG	ENT, P.A.S.	
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4

Air			No information available			
8.2.	Exposure controls					
8.2.1.	Appropriate engineering	controls				
	Substance/mixture related measures to prevent exponential 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 prexposure:	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 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) or visor.			
8.2.2.2.	Skin protection					
			ective gloves must be according to the EU Directive 2016/425/EEC and dard EN 374.			
	Hand protection:	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 is (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter fo	tective full face mask (EN 136) or half mask (EN 140) equipped with a or for organic vapors, type "A" (boiling point >65°C) acording to EN 87) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	formation available			
8.2.3.	Environmental exposure	controls	;			
	Substance/mixture related measures to prevent expo		See Section 6			
	Structural measures to pr exposure:	event	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to proexposure:	event	See Section 6			

SECTION 9. Physical and chemical properties



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Trading name:		HCL REAG	ENT, P.A.S.	
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4

	Value	Method
Physical state:	liquid	No information available
Color:	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

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



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Trading name:		HCL REAG	ENT, P.A.S.	
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4

Acute toxic	:ity:				
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure ti	me 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	ingle exposure (S	STOT SE):		
1		fic effects	1	t organ	Note
Oral exposure:	No information	available	No informat	on available	-
Dermal exposure:	No information	availabla	No informat	_	
	available	140 IIIIOIIIIati	No information available -		
Inhalation exposure					_
Inhalation exposure					-
Inhalation exposure Aspiration	: No information	available			-
Aspiration	: No information	available	No informat		-
Aspiration	: No information hazard: nd corrosion:	available No infor	No information available	on available	-
Aspiration Irritation ar	: No information	available	No informat		Note
Aspiration Irritation ar Skin irritation:	: No information hazard: nd corrosion: Exposure time	No infor	No information available Evaluation	Method	
Aspiration Irritation ar	: No information hazard: nd corrosion:	available No infor Species	No information available Evaluation	on available Method	
Aspiration Irritation ar Skin irritation: Eye irritation:	: No information hazard: nd corrosion: Exposure time -	No infor	No information available Evaluation	Method	
Aspiration Irritation ar Skin irritation: Eye irritation: Sensitization	: No information hazard: nd corrosion: Exposure time - -	available No infor Species	No information available Evaluation	Method	
Aspiration Irritation ar Skin irritation: Eye irritation:	: No information hazard: nd corrosion: Exposure time -	available No infor Species lable	No information available Evaluation	Method	
Aspiration Irritation ar Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure:	: No information hazard: nd corrosion: Exposure time on No information avai	available No infor Species lable lable	Mo information available Evaluation	Method	
Aspiration Irritation ar Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure: Symptoms	: No information hazard: nd corrosion: Exposure time on No information avai No information avai	Available No infor Species lable lable al, chemical and	Mo information available Evaluation	Method	
Aspiration Irritation ar Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure:	hazard: nd corrosion: Exposure time No information avaitable in the physical information and information avaitable in the physical information in the physical information in the physical information avaitable in the physical information in the phy	Available No infor Species lable lable al, chemical and vailable	Mo information available Evaluation	Method	
Aspiration Irritation ar Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure: Symptoms Oral exposure:	hazard: nd corrosion: Exposure time nn No information avait No information avait related to the physic No information a No information a	Available No information	Mo information available Evaluation	Method	



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Trading name:		HCL REAG	ENT, P.A.S.	
Product code:	HCLP-OT-X**	Date of compilation:	14 November 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:	HCL REAGENT, P.A.S.				
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4	

Chronic	inhalation	No informa	tion available	No information available	-			
	CMR effects ((carcinogenicity	; mutagenicity; repr	oductive toxicity)				
	Carcinogenic	ity:	Based on availa	ble data, the classification criteria a	are not met.			
	Mutagenicity	in-vitro:	Based on availa	ble data, the classification criteria a	are not met.			
	Genotoxicity:		Based on availa	ble data, the classification criteria a	are not met.			
	Mutagenicity	in-vivo:	Based on availa	Based on available data, the classification criteria are not met.				
	Germ cell mu	tagenicity:	Based on available data, the classification criteria are not met.					
	Reproductive toxicity: Based o			sed on available data, the classification criteria are not met.				
	Summary of e	evaluation of th	e CMR properties:	-				
11.2.	Information of	on other hazard	s:					
11.2.1.	Endocrine dis	rupting proper	ties:					
	No known endocrine disrupting properties that affect human health.							
11.2.2.	Other inform	ations:						
	_							

SECTION 12. Ecological information

12 1	T = 1, 1; =: 4, 1	
1/ 1	Toxicity	

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 (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	1
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-



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Tradin	ng name	:				HCL REA	GEN	T, P.A.S.				
Product code: HCLP-OT-X**		Date	Date of compilation: 14 Nov		4 November	2022	Vers	Version: 4				
Algae/a	aquatic p	olants	IC ₅₀	72 hou	rc	No information available	_	information ilable	No informa availab		_	
Other o	organism	าร	-	-		-	-		-		_	
12.2.			and degradal	bility								
	Abiotio		adation									
		Deg	gradation ha	lf-lives		Method		Ev	aluation			Note
Marine water)	No in	formation av	ailable	No	information availa	able	No informat	tion avai	lable	-	
Fresh v	water	No in	formation av	ailable	No	information availa	ble	No informat	tion avai	lable	-	
Air		No in	formation av	ailable	No	information availa	ble	No informat	tion avai	lable	-	
Soil		No in	formation av	ailable	No	information availa	ble	No informat	tion avai	lable	-	
	Biodeg	gradati	ion	1					1			
% Deg	gradation	1	Time (day	s)		Method		Evaluation		N	lote	
No info	ormation		informailable							lo informa vailable	information ilable	
avanab	, i C	U V V	andore		avana			unabic	, d	vanabie		
12.3.	Bioacc	umula	tive potentia	al								
	Octano	ol-wat	er partition o	oefficien	t (log	Kow)						
Valu	ıe	Conce	entration	рН	°C	Method		Evaluati	on		Note	
-		lo ir vailabl	nformation e	-	_	No information	on	No informat	tion	-		
						i						
	Biocor	ncentra	ation factor (BCF)								
\	Value		Speci	es		Method		Evaluation			Vote	
No information No informati available available		formatior						No inform available	nation			
	Chroni	ic ecot	oxicity									



No adverse effects are expected.

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

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Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4

Product	code: H	CLP-OT-X**	Date of co	mpilation	: 14 Nc	vember	2022	Versio	n: 4
	Value	Dose	Exposure time	Species	Met	thod	Evaluat	ion	Note
Chronic t	oxicity on fish	LC ₅₀	information i	No nformatio available	No n inform availab	1	No informatio available	on -	-
	oxicity on (<i>Daphnia</i>)	EC ₅₀	information i	No nformatio available	No n inform availab		No informatio available	on -	_
12.4.	Mobility in so	il							
	Known or pre	dicted distributi	ion in environmer	ntal compa	artments:				
	No informatio	n available							
	Surface tensio	on:							
	Value	°C	Concentration	on	Metho	od		Note	9
i	No nformation available	No information available	No information		nformatio lable				
	Adsorption / o	desorption							
Transport	†	coefficient o's constant	log Kow	Evapora	ation rate	Me	thod		Note
Soil-wate	r No available	information	No information available	No info availabl	rmation e	No info availabl	rmation e	-	
Water-air	No available	information	No information available	No info availabl	rmation e	No info availabl	rmation e	-	
Soil-air	No available	information	No information available	on No information available		No information available		-	
12.5. I	Results of PRT	and vPvB asses	ssment						
	No information		5511101110						
12.6.	Endocrine disi	rupting propert	ies						
			ng properties tha	at affect th	e environn	nent.			
		'	<u> </u>						
12.7.	Other adverse	e effects							
	NI l	CC +	4						



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Trading name:	HCL REAGENT, P.A.S.				
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4	

SECTION	N 13. Disposal considerat	ions
13.1.	Waste treatment metho	
15.1.	waste treatment metho	us
13.1.1.	Product/Packaging disp	osal:
	Submit for disposal to the 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	
13.1.3.	Waste treatment – relev	ant information:
	No information available	
13.1.4.	Sewage disposal – relev	ant information:
15.1.4.	3 .	
	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 cry in charge. Do not dispose of the packaging into the sewage system. Submit electors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community pro	ovisions:
	-	
SECTIO	N 14. Transport informati	
	Transporting/shipment by	
UN num		Not subject to transport regulations.
······································	per shipping name:	
	rt hazard class(es):	
Packing group:		
	mentally hazardous:	
Special	orecautions for user:	- (200)
	Transporting/shipment by	Not subject to transport regulations.
UN number:		



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

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Trading name:	HCL REAGENT, P.A.S.							
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version:	4			
Transport hazard cl	lass(es):							
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions								
·	terway transport (AD							
UN number:	ierway transport (%12	Not subject to transport	regulations					
UN proper shipping	n name:	-	regulations.					
Transport hazard c		-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions		_	-					
	ng/shipment by sea	(IMDG)						
UN number:			Not subject to transport regulations.					
UN proper shipping	g name:	-						
Transport hazard cl		-	-					
Packing group:		-	_					
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Transporti	ng/shipment by air	(ICAO-TI/IATA-DGR)						
UN number:		Not subject to transport	Not subject to transport regulations.					
UN proper shipping	g name:	-						
Transport hazard class(es):		-	-					
Packing group:		-						
Environmentally hazardous:		-						
Special precautions	Special precautions for user:							
Further information	n: The product	is not subject to classification	on.					

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



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Trading name:	HCL REAGENT, P.A.S.			
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		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;			
	Other EU regulations:	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 certain dangerous substances, mixtures and articles (Annex XVII);			
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-quideline)				
	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 assessmen	t			
	None				

SECTIO	N 16. Other information				
16.1.	Indication of changes:	-			
		PBT	Stable, bioaccumulative and toxic		
		vPvB	Strongly stable and strongly bioaccumulative.		
16.2.	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%		
		LC ₅₀	Lethal concentration, 50%		
		STOT-SE	Specific target organ toxicity - single exposure		
16.3.	Key literature references and	_			
10.5.	source of data:				
16.4. Classification and procedure us 1272/2008 (CLP)		sed to derive the	classification for mixture according to Regulation (EC)		
Classification C		Classification pro	lassification procedure		
_					



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Trading name:	HCL REAGENT, P.A.S.				
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16.5.	Relevant H statements (number and full text)		
	H: 314 335	Causes severe skin burns and eye damage. May cause respiratory irritation.	
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:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

1.1.	Product identifier	Product identifier					
	Trading name:	HEMATO	OXYLIN ML				
	Chemical name:	-					
	Catalogue number:	HEMML	-OT-X**				
1.2.	Relevant identified use	es of the su	ubstance or m	ixture and uses advised against			
	Uses:		Modified	hematoxylin acc. to Mayer-Lillie for nuclear staining.			
	Uses advised against:		Only the	identified uses are advised.			
	Reason why uses advi	sed agains	t: medical o	uct 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			
1.3.	Details of the supplier	of the safe	ety data sheet				
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska	Medjugorska 59, Zagreb +385 1 2409997			
	Telephone number:		+385 1 24099				
	Fax no.:		+385 1 24040	+385 1 2404039			
	e-mail of competent p	erson:	msds@biogn	<u>ost.hr</u>			
	National contact:		-				
1.4.	Emergency telephone number						
	National Protection ar	nd Rescue	Directorate:	112			
	Medical information:			. 205 1 2240 242			
	Medical information:			+385 1 2348 342			

SECTIO	ECTION 2. Hazards identification					
2.1.	Classification of the substance or	Classification of the substance or mixture				
2.1.1.	Classification according to Regul	ation (EC) No 1272/20	08 (CLP)			
	Hazard class and cate	gory code:	Hazard statements*:			
	Eye Irr. 2 H319					
2.1.2.	Additional information					
	-					
*For ful	I text of Hazard- and EU Hazard-sta	atements: see Section	16			
2.2.	Label elements					
	Product identification: HEMATOXYLIN ML					
	Identification number: -					
	Authorization no.:	uthorization no.:				



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Trading name:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

	Hazard pictograms:	GHS07		
	Signal word:	Warning		
	Hazard statements:	H319 Causes serious eye irritation.		
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.		
	Supplemetal hazard information (EU):	-		
2.3.	Other hazards			
	Endocrine Disrupting Properties:			
	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. C	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)				
7784-31-8/ 616-524-3/ -	-	3 – 4 %	aluminum sulfate octadecahydrate	Eye Dam. 1; H318				

SECTION 4. First aid measures				
4.1.	. Description of first aid measures			
	General notes:	Take off contaminated clothing.		
	Following inhalation:	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.		
	Following skin contact:	Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.		
	Following eye contact:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.		
	Following ingestion:	Rinse mouth. Call a doctor if you feel unwell.		



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Trading name:		HEMAT	OXYLIN ML		
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

	Self-protection of the first aider: Treat symptomatically.	
4.2.	Most important symptoms and effects, both acute and delayed	
	Following inhalation:	No information available
	Following skin contact:	No information available
	Following eye contact:	Risk of blindness, Risk of serious damage to eyes.
	Following ingestion:	No information available
4.3.	Indication of any immediate medical attention and special treatment needed	
	-	

SECTION 5. Firefighting measures		
5.1.	Extinguishing media	
	Suitable extinguishing media:	Small fire - water spray, dry powder, foam, CO ₂ Large fire - water spray or alcohol-resistant foam
	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	
	Do not enter fire area without proper protective equipment, including respiratory protection.	
5.4.	Additional information	
	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 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:		
	Do not enter fire area without proper protective equipment, including respiratory protection.		
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		



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Trading name:		HEMAT	OXYLIN ML		
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

6.3.1.	Bunding, covering of drains; capping procedures:	Covering of drains. Take up mechanically.
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. 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:	Place in appropriate containers for disposal.
6.4.	Reference to other sections	
	See Section 7 for information	about secure handling.
	See Section 8 for information	about personal protective equipment.
	See Section 13 for information	n about containment.

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 generat	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. T	horoughly 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 place.		
	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)			



Soil (agricultural)

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							1 4 9 0 0 1 1
Trading nam	ne:				НЕМА	TOXYLIN ML	
Product code	e:	HEMMI	L-OT-X**	F	Revision date:	27.03.2023.	Version: 9
				·			
Reco	ommer	ndations:			-		
Indu	strial s	sector spe	ecific solutio	ns:	-		
			_				
SECTION 8. E				al prote	ction		
8.1. Cont	trol pa	rameters					
Subs	tanco		CAS I	No		al exposure limit ort term values	Biological limit values
Substance		CAST	NO	ppm	mg/m³	Biological littlit values	
_	-		-		-	-	No information available
			l		1	1	1
Substance name:	Alum	ninium su	Ilphate octa	decahyd	rate		
EC No:	233-	135-0	CAS No:	77	84-31-8		
DNEL							
					Industrial		
Route of		A	Acute		Acute	Chronic	Chronic
exposure:		effe	ect local	effe	ect systemic	effect local	effect systemic
Oral		-		-		-	-
Inhalation		-		-		-	13,4 mg/m ³
Dermal		-		-		-	3,8 mg/kg bw/day
Critical physic	al para	ameters:	solubility, fla	ammabil	ity, corrosivity:	-	
				l	Consumer	T	
Route of exposure:		1	Acute ect local	offe	Acute	Chronic effect local	Chronic offset systemic
Oral		ene	ect iocai	-	ect systemic	- effect local	effect systemic
Inhalation		-		_		_	
Dermal		_		_		_	
PNEC							
Environmenta	l prote	ection tar	get		PNEC		
Fresh water					No info	rmation available	
Freshwater se	dimen	ts			No info	rmation available	
Marine water					No info	rmation available	
Marine sedim	ents				No info	rmation available	
Food chain					No info	rmation available	
Microorganisr	ns in s	sewage tr	eatment		No info	rmation available	

No information available



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Air			No information available	
8.2.	Evnocuro controle			
8.2.1.	Exposure controls			
0.2.1.	Engineering measures Substance/mixture related			
	measures to prevent exp 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 preserve:	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 prexposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.	
8.2.2.	Personal protection equi	pment		
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:	Chem 374.	Glove material: nitrile rubber Glove thickness: > 0.11 mm Break through time: >480 min	
	Other skin protection:		r antistatic clothing made of natural fibers (such as cotton) with long res (EN 13034), and shoes that cover the entire foot (EN 10335).	
8.2.2.3.	Respiratory protection:	In cas	se of inadequate ventilation wear respiratory protection.	
8.2.2.4.	Thermal hazards:	No in	nformation available	
8.2.3.	Environmental exposure	control	s	
	Substance/mixture relate measures to prevent exp		See Section 6	
	Structural measures to preserve:	revent	Use modern equipment.	
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace. Keep away from drains, surface and ground water.	
	Technical measures to prexposure:	event	See Section 6	

SECTIO	N 9. Physical and chemical properties		
9.1.	Information on basic physical and cher	mical properties	
		Value	Method



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	Physical state:	liquid	No information available
	Color:	dark red	No information available
	Odour/odour threshold:	glycerol 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:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	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:	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	N 11. Toxicological information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
	Acute toxicity:



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	HEMML-OT-X**		HEMML-OT-X** Revision date: 27.03.2023.	

Product code:	HEMML-OT-X**	Revision date:	: 27.03.2023.		Version: 9
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or	Exposui time	re Results
Oral exposure:	anhydrous (ECHA)	rabbit	ATE _{mixture}	-	>2.000-<5.000 mg/kg (aluminium sulphate octadecahydrate)
Dermal exposure:	anhydrous (ECHA)	rat	LD ₅₀	-	>5.000mg/kg (aluminium sulphate octadecahydrate)
Inhalation exposure:	No information available	-	LC ₅₀	-	-
Specific ta	rget organ toxicity – singl	•	1		
	Specific effects			et organ	Note
Oral exposure:	No information avai	ilable	No information available		-
Dermal exposure:	No information avai	ilable	No information available		-
Inhalation exposure	e: No information avai	ilable	No inform available	nation	-
Respirator	y irritation:	No information av	ailable		
Irritation a	and corrosion				
l l	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	-	-	-	
Eye irritation:	_	-	-	- C	auses serious eye damage
Sensitizati					
Dermal exposure:	No information available				

Sensitizati	on					
Dermal exposure:	No information available					
Inhalation exposure:	No information available					
Symptom	s related to the physical, chemical and toxicological characteristics					
Oral exposure:	No information available					
Dermal exposure:	No information available					



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Inhalation expos	ure:	No informati	on available					
Eye exposure: Causes serious eye damage								
Repeat	ed dos	se toxicity (sub	oacute, subchr	onic, chronic)				
		Dose	Exposure time	Species	Method	Evaluation	า	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No inform	nation	-
Subacute dermal	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Subchronic oral	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Specific	targe	t organ toxici	ty – repeated e	•	-			
			Specific effect	:S	Target or			Note
Subacute oral			tion available		No information available		-	
Subacute derma			tion available		No information available		-	
Subacute inhalat	tion		ition available		No information		-	
Subchronic oral		No informa	ition available		No information	available	_	



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Subchro	ronic dermal No information avail		ilable No information available		-			
Subchro	onic inhalation No information availa		lable No information available		-			
Chronic	oral	No information avai	lable	No information available	-			
Chronic	dermal	No information avai	lable	No information available	-			
Chronic	inhalation	No information avai	lable	No information available	-			
	CMR effects (carcinogenicity, mutag	enicity, reproduct	ive toxicity)				
	Carcinogenici	ty:	No information	available				
	Mutagenicity in-vitro:		No information available					
	Genotoxicity:		No information available					
	Mutagenicity in-vivo:		No information available					
	Germ cell mut	agenicity:	No information available					
	Reproductive	toxicity:	No information available					
	Summary of e	valuation of the CMR	properties:	-				
11.2.	Information o	n other hazards:						
11.2.1.	Endocrine dis	rupting properties:						
	No known properties that	endocrine disrupt It affect human health.	•					
11.2.2.	Other informa	ations:						

SECTION	12. Ec	ologica	I inforn	nation
----------------	--------	---------	----------	--------

Toxicity 12.1.

Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Fish	ЕСНА	>85.9 mg/l (aluminium sulphate octadecahydrate)	-
Crustacea:	EC ₅₀	48 hours	aquatic invertebrates	ЕСНА	>200 mg/l (aluminium sulphate octadecahydrate)	-
Algae/aquatic plants	IC ₅₀	8 days	algae	No information available	-	-



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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	EC ₅₀	180 min	microorganisms	ECHA	>1.000 mg/l (aluminium sulphate octadecahydrate)	-

Persistence and degradability 12.2.

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 available				

Bioaccumulative potential 12.3.

Partition coefficient: n-octanol/water (log Kow):

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



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Trading name:		HEMATOXYLIN ML			
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

V	alue		Species		Meth	hod	Eva	aluation		Not	Note	
No info availabl	o information No information vailable available		nation	ion No information available		No information available			No information available			
	Chronic	ecotox	icity									
	Value		Dose		osure me	Species	Meth	od	Ev	aluation	Note	
Chronic	toxicity or	n fish	LC ₅₀	No inforr availa	nation i	No nformat on available	No inform available	ation	No info	ormation ble	-	
	toxicity or ea (<i>Daphni</i>		EC ₅₀	No inforr availa	nation i	No nformat on available	No inform	ation	No info	ormation ble	-	
		mation	icted distribut n available n:	ion in e	environme	ntal com	partments:					
	Value		°C		Concen	tration	Meth	od		Note		
	No informat available	ion	No inform available	nation	No inforr available		No inform available	ation	-			
	Adsorpti	on / de	esorption									
Transpo	ort	-	pefficient s constant	lo	g Kow	Evapo	ration rate	М	lethod	N	lote	
Soil-wa	ter No avai	lable	information	No in availa	formation ble	No info	ormation le	No infa	ormatio ole	n -		
Water-a	air No avai	lable	information	No in availa	formation ble	No info	ormation le	No info	ormation ole	n -		
Soil-air	No	lable	information	No in availa	formation	No info	ormation	No inf	ormatio	n _		



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Trading name:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version: 9	

12.5.	Results of PBT and vPvB assessment
12.5.	No information available
	The information dvalidate
12.6.	Endocrine disrupting properties
	No known endocrine disrupting properties that affect the environment.
12.7.	Other adverse effects
12.7.	No adverse effects are expected.
	no auverse effects are expected.
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.	Western de de designations according to Laure
13.1.2.	Waste codes/waste designations according to Law: No information available
	NO IIIIOITTIALIOIT AVAIIADIE
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into 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. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	-
CECT: C	
SECTIO	N 14. Transport information



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Trading name:		HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9	

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 (RID)
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 transpor	t (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 (IMDG)
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 (ICAO-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:	-



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Trading name:	HEMATOXYLIN ML				
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Further information:	The product is not subject to classification.
ruftilei illioittiation.	The product is not subject to classification.

15.1.	Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or res	trictions of use
	Authorizations:	-
	Restrictions:	-
		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;
	Other EU regulations:	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 certain dangerous substances, mixtures and articles (Annex XVII);
	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 assessme	ent
	None	

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



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Trading name:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

16.2.	Abbreviations and acronym	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:	d _	
16.4.	Classification and procedure 1272/2008 (CLP)	e used to derive the classification for mixture according to Regulation (EC)	
Classific	cation	Classification procedure	
-		-	
16.5.	Relevant H statements (num	nber and full text)	
	H: 318	Causes serious eye damage.	
	319	Causes serious eye irritation.	
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:	PERIODIC ACID, 0.8 % SOLUTION			
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

SECTI	ON 1 IDENTIFICATION (OF THE SUB	STANCE/MI	IXTURE AND OF THE COMPANY/UNDERTAKING
1.1.	Product identifier			
	Trading name:	PERIODIC	ACID, 0.8 %	SOLUTION
	Chemical name:	-		
	Catalogue number:	PK08-OT-	X**	
1.2.	Relevant identified use	es of the sub	stance or mi	xture and uses advised against
	Uses:		For use w	ith special staining kits.
	Uses advised against:		Only the i	dentified uses are advised.
Reason why uses advised against: medical device,		uct is intended for use only as an <i>in vitro</i> diagnostic levice, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier	of the safet	y data sheet	
	Supplier:	ŀ	BioGnost Ltd.	
	Address: N		Medjugorska	59, Zagreb
	Telephone number: +		-385 1 2409997	
	Fax no.: +		+385 1 2404039	
	e-mail of competent person: <u>m</u>		msds@biognost.hr	
	National contact:	-		
1.4.	Emergency telephone	Emergency telephone number		
	National Protection an	ıd Rescue Di	rectorate:	112
	Medical information:			+385 1 2348 342
	Other information:			-

SECTIO	CTION 2 HAZARDS INFORMATION		
2.1.	Classification of the substance or mixture		
2.1.1.	Classification (REGULATION (EC) N	No. 1272/2008 (CLP)
	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-sta	tements: see Se	ection 16
2.2.	Classification according to EC Dire	ective Nr. 1272/	2008 CLP)
	Product identification:	PERIODIC ACI	D, 0.8 % SOLUTION
	Identification number: -		
	Authorization no.: -		
	Hazard pictograms:	-	



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION			-
Product code:	PK08-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	s:
	No known endocrine disrupting p	properties
	Results of PBT and vPvB assessi PBT or a vPvB.	ment: According to the results of its assessment, 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)		
-	_	-	-	-		

SECTIO	SECTION 4 FIRST AID MEASURES			
4.1.	Description of first aid measu	ires		
	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 aid	der: Treat symptomatically.		
4.2.	Most important symptoms a	nd effects, both acute and delayed		
	Following inhalation:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.		
	Following skin contact:	Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure may cause drying, cracking and tingling sensation of skin.		



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.	
	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.	
4.3.	Indication of any immediate medical 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			
	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	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).				
	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 Secti	on 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 containmer	nt and cleaning up				



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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	
	-	

SECTIO	SECTION 7 HANDLING AN STORAGE								
7.1.	Precautions for safe handling								
7.1.1.	Protection measures								
	Measures to prevent fire:	Keep aw not smo	vay from sources of heat and ignition. Do ke.						
	Measures to prevent aerosol and dust generati	n: Secure p	proper ventilation.						
	Measures to protect the environment:	Prevent waterwa	spilling into the sewage system and sys.						
	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.	2. Conditions for safe storage, including any incompatibilities								
	Technical measures and storage conditions:	ventilated sto	ly closed and upright set containers in a well orage rooms, and away from sources of heat, other incompatible substances.						
	Packaging materials:	Manufacture	r's original packaging.						
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.							
	Advices for storage equipment:	be resistant t	must be made of hard material; floors must o chemicals. There must be no drain that into sewage system. Secure proper						
	Further information on storage conditions:	and do not u	the unused material in the storage room se empty containers for storing other o not store with incompatible materials (see						
7.3.	Specific end use(s)								



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Trading name:		% SOLUTION			
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Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8 FX	SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION									
		meters	TROES/TER	JOHAL	ı koı	LCTION				
Substance				upational exposure limit lues/short term values			Bio	iological limit values		
Substance					ppm	n	ng/m³		3	
-			-			-		-	No infor	mation available
Substance name:	—									
EC No:	_		CAS No:	_						
DNEL										
					Inc	lustrial				
Route of		A	Acute		Acut	e		Chron	ic	Chronic
exposure:		effe	ect local	effe	ct sys	temic		effect lo	ocal	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
Critical physic	al parar	neters: s	solubility, fla	mmabilit	ty, cor	rosivity:		-		
		ı			Coi	nsumer	1			1
Route of			Acute	Acute		Chronic			Chronic	
exposure:		ette	ect local	ocal effect s		temic		effect lo	ocal	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC	l	.4:				DNIEC				
Environmenta	protec	tion tar	get			PNEC				
Fresh water					No information available No information available					
Freshwater sediments										
Marine water					No information available					
Marine sediments Food chain					No information available No information available					
Microorganisr	ns in so	wago tr	eatment			No information available No information available				
		waye II	catinent							
Soil (agricultural)					No information available					



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Air			No information available				
8.2.	Exposure controls						
8.2.1.	Engineering measures						
	Substance/mixture relate measures to prevent expeduring 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 prexposure:	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 pr exposure:	event	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 that stick to face (preventing splashing) (EN 166) c visor.					
8.2.2.2.	Skin protection						
	Hand protection:		tective gloves must be according to the EU Directive 2016/425/EEC and idard 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	ctive 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 expe		See Section 6				
	Structural measures to pr exposure:	event	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



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	no odor/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

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:	With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.			
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.			
10.5.	Incompatible materials:	Aluminum.			
10.6.	Hazardous decomposition products:	No information available.			

SECTION 11 TOXICOLOGICAL INFORMATION



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

		1	:			:		
11.1. Informatio	n on hazard classes as	defined in Reg	ulation (EC) No 12	72/2008				
Route of exposure:	Method Species LD ₅₀ /LC ₅₀ or Exposure time ATE _{mixture}					Results		
Oral exposure:	No information available	_	LD ₅₀	-				
Dermal exposure:	No information available	-	LD ₅₀	-		-		
Inhalation exposure:	No information available	-	LC ₅₀	_		-		
Specific ta	rget organ toxicity – si	ngle exposure (STOT SE):					
	Specifi	c effects	Targe	t organ		Note		
Oral exposure:	No information a	available	No informati	on available	-			
Dermal exposure:	No information a	available	No informati	on available	-			
Inhalation exposure	e: No information a	available	No informati	on available	-			
	y irritation: nd corrosion	No info	rmation available					
11110000110	Exposure time	Species	Evaluation	Method		Note		
Skin irritation:	-	rabbit	-					
Eye irritation:	-	rabbit	-					
Sensitizatio	on							
Dermal exposure:	No information avail	able						
Inhalation exposure:	No information available	able						
Symptoms	related to the physica	l, chemical and	toxicological chara	acteristics				
Oral exposure:	sensation; higher	evels of concer g, aspiration ca	of mucosa, tingling ntration may cause uses coughing, diff tion.	nausea, abdoi	minal pa	ain and vomiting.		
Dermal exposure:			ure, resorption effe ingling sensation o		ely. Lon	g-term exposure		



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Inhalation exposi	ure:		large amount eezing, heada	•		adequately vent	ilated perimet	er may cause
Eye exposure:		Direct eye co sensation.	ontact may cau	se slight to	mod	erate irritation,	lacrimation an	d burning
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chroni	ic)			
-		Dose	Exposure time	Species		Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No informati available		No information available	No information available	-
Subacute dermal	No availa	information able	No information available	No informati available	on	No information available	No information available	-
Subacute inhalation	No availa	information able	No information available	No informati available	on	No information available	No information available	-
Subchronic oral	No availa	information able	No information available	No informati available	on	No information available	No information available	-
Subchronic dermal	No availa	information able	No information available	No informati available	on	No information available	No information available	-
Subchronic inhalation	No availa	information able	No information available	No informati available	on	No information available	No information available	-
Chronic oral	No availa	information able	No information available	No informati available	on	No information available	No information available	-
Chronic dermal	No availa	information able	No information available	No informati available	on	No information available	No information available	-
Chronic inhalation			No information available	No informati available		No information available	No information available	-
				· · · · · · · · · · · · · · · · · · ·	TOT 5			
Specific	target	1	y – repeated e pecific effects	exposure (S	101 F		an .	Note
Subacute oral			ation available		No i	Target organisms		
Subacute dermal			ation available			nformation avai		
Subacute inhalat			ntion available			nformation avai		



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

Subchro	onic oral	No information	n available		No informatio	n availabl	e	_
Subchro	onic dermal	No information	n available		No informatio	n availabl	e	_
Subchro	onic inhalation	n available		No informatio	n availabl	e	-	
Chronic	nic oral No information available				No informatio	n availabl	e	-
Chronic	dermal	No information	n available		No informatio	n availabl	e	-
Chronic	inhalation	No information	n available		No informatio	n availabl	e	-
	CMR effects (c	carcinogenicity, m	utagenicity, r	reproduct	ive toxicity)			
	Carcinogenicit					not indica	ate carcin	ogenic effects.
	Mutagenicity i			s did not ind				
	Genotoxicity:	No informa				- 9		
	Mutagenicity i	Current <i>in</i>	Current <i>in vivo</i> tests did not indicate mutagenic effects.					
	Germ cell mut	No informa						
	Reproductive toxicity: No toxicity on reproductive organs was determined in rorgans.				ed in reproductiv			
11.2		valuation of the (CMR propertion	es: -				
11.2.1.		upting 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 informa	tions:						

SECTION 12 ECOLOGICAL INFORMATION:								
12.1. Toxicity								
Acute toxicity	Acute toxicity Dose Exposure time Species Method Evaluation Note							
Fish	LC ₅₀	96 hours	No information available	No information available	-	-		



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION						
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

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	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	-

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

12.3.	Bioaccumulative potential							
	Partition coefficient: n-octanol/water (log Kow):							
Valu	Value Concentration pH °C Method Evaluation Note							



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Tradin	g name:	•			PER	IODIC	ACID,	0.8 %	SOLUT	ION		
Produc	ct code:	PK	PK08-OT-X**		Date	e of co	mpilati	on: 2	21 Dec	2022	Version: 4	
-	N av	o info	ormation	-		No info	ormation le		inform ailable	ation	-	
	Biocon	centration	on factor (BCF)							1	
V	/alue		Speci	es	1	Method	k	E	valuatio	on		Note
No info	ormation le	No ava	in [.] ilable	formatio	n No info availab		on	No information available		on	No inforr available	mation
	Chronic	c ecotox	icitv									
Chronic ecotoxicity Value Dose			se E	xposure time	Spo	ecies	Met	Method Evaluation		luation	Note	
Chronic toxicity on fish LC ₅₀			1	ormation ailable	No infori availa	mation able	No inform availal		No information available		-	
	c toxicity ea (<i>Daph</i>		EC ₅₀	1	ormation ailable	No infori availa	mation able	No inform availal		No info	ormation ble	-
12.4.	Mobilit	ty in soil										
	1		icted distr	ibution ir	n environm	nental d	compart	ments:				
			available									
	Surface	e tensior	1:									
	Val	ue	°C		Concentra	ation		Meth	od		N	ote
	No informa availab	ation	No informatio available	าก	lo informa vailable	ition	No infavailat	ormatic ole	on	-		
	Adsorn	otion / de	esorption									
Transpo	-	A/D c	oefficient s constant		log Kow	Ev	/aporati	on rate		Method		Note
Soil-wa	ater N	0 vailable	informat		information		o inform	ation	No ir	nformati	on -	



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	t code.	0 01 X	Date 0.	compliation. 2	T Dec 2022	version. 4
Water-a	ir No available	information	No information available	No information available	No information available	-
Soil-air	No available	information	No information available	No information available	No information available	-
12.5.	Results of PBT ar					
	according to REA	ACH Article 5	•	n Delegated regula	to have endocrine o	disrupting properties 0 or Commission
12.6.	Endocrine disrup	oting properti	es			
	according to REA	ACH Article 5	•	n Delegated regula	to have endocrine o tion (EU) 2017/2100	disrupting properties O or Commission
12.7.	Other adverse ef	ffects				
	No information a	available				
SECTIO	N 13 DISPOSAL (CONSIDERAT	TIONS			
13.1.	Waste treatme	ent methods				
13.1.1.	Product/Packa	ging disposa	:			
	Submit for disp Protection.	posal to the l	egal person autho	rized by the Minist	ry of Environmenta	l and Nature
13.1.2.	Waste codes/v	waste designa	tions according to	Law:		
	No information		<u> </u>			
13.1.3.	Waste treatme	ent – relevant	information:			
	No information	n available				
13.1.4.	Sewage dispos	sal – relevant	information:			
			d of into the sewa	ge system.		
12.15	Oth I'	l	- .			
13.1.5.	Other disposal	recommend	ations:			



Trading name:

SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006

amended by Regulation (EU) No. 2020/878

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Product code: PK08-OT-X**	Date of compilation: 21 Dec 2022 Version: 4
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
ignition may occur.	lectors authorized by the ministry in charge. Do not dispose of in places where
13.1.6. Relevant Community pro	ovisions:
-	
SECTION 14 TRANSPORT INFOR	MATION
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 (RID)
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 (IMDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-



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UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-

5.1. Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
EU regulations	
Authorization and/or res	trictions 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; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);



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	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 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			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure us 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)			
Classifi	ication	Classification procedure			
-	-	-			
16.5.	Relevant H statements (number	er and full text)			
	H: -				
16.6.	Training advice:				
16.7.	Further information: t	"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.			

Λ	N	N	П	ᆮ	Y	
_		н	ч	ᆫ	Л	

Exposure scenario resulting to Chemical safety assessment

-



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Trading name:	SODIUM METABISULFITE, SOLUTION						
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4		

1.1.	ON 1: Identification of Product identifier	ine substa	nce/mixture a	and of the company/undertaking
1.1.		CODILIN	4	TE COLLITION
	Trading name:	SODION	I METABISULFI	TE, SOLUTION
	Chemical name:	-		
	Catalogue number:	NM-OT-	-X**	
1.2.	Relevant identified us	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	dentified 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 safe	ety data sheet	
	Supplier: Bio		BioGnost Ltd.	
	Address:		Medjugorska	59, Zagreb
	Address: Telephone number:		Medjugorska +385 1 24099	
				997
	Telephone number:	person:	+385 1 24099	997 939
	Telephone number: Fax no.:	person:	+385 1 24099 +385 1 24040	997 939
1.4.	Telephone number: Fax no.: e-mail of competent		+385 1 24099 +385 1 24040	997 939
1.4.	Telephone number: Fax no.: e-mail of competent National contact:	number	+385 1 24099 +385 1 24040 msds@biogno	997 939
1.4.	Telephone number: Fax no.: e-mail of competent National contact: Emergency telephone	number	+385 1 24099 +385 1 24040 msds@biogno	997 939 ost.hr

CECTIC	SECTION 2. Hazards identification				
SECTIO	4 2. Mazards identification				
2.1.	Classification of the substan	ce or mixture			
2.1.1.	Classification according to R	Regulation (EC) No 1272/20	08 (CLP)		
	Hazard class and	category code:	Hazard statements*:		
	Eye Irr. 2		H319		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazar	rd-statements: see Section	16		
2.2.	Label elements				
	Product identification:	Product identification: SODIUM METABISULFITE, SOLUTION			
	Identification number:	Identification number: -			
	Authorization no.:	-			



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Trading name:	SODIUM METABISULFITE, SOLUTION				
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4

	Hazard pictograms:	GHS07		
	Signal word:	Warning		
	Hazard statements:	H319 Causes serious eye irritation.		
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. 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: Immediately call a POISON CENTER or physician.		
	Supplemetal hazard information (EU):	-		
2.3.	Other hazards			
	Endocrine Disrupting Proper	rties:		
	No known endocrine disrupting 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	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)			
7681-57-4/ 231-673-0/ 016-063-00-2	-	< 10 %	sodium metabisulfite	Acute Tox. 4, H302 Eye Dam. 1; H318 EUH031			

SECTION	SECTION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	Take off contaminated clothing.			
	Following inhalation:	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.			
	Following skin contact:	Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.			
	Following eye contact:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.			



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	Following ingestion:		Rinse mouth. Call a doctor if you feel unwell.
	Self-protection of the first aider:		Treat symptomatically.
4.2.	Most important symptom	s and ef	fects, both acute and delayed
	Following inhalation:	No i	nformation available
	Following skin contact:	No i	nformation available
	Following eye contact:	Risk	of blindness, Risk of serious damage to eyes.
	Following ingestion:	No i	nformation available
4.3.	Indication of any immediate med		cal attention and special treatment needed
•	-		

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, foam, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the s	ubstance or mixture			
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Do not enter fire area without pro	per protective equipment, including respiratory protection.			
5.4.	Additional information				
	Remove sources of heat and ignit Do not contaminate the environm				

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. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Do not enter fire area without proper protective equipment, including respiratory protection.				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Nati Protection and Rescue Directorate (NPRD) on 112.				



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6.3.	Methods and material for containment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Covering of drains. Take up mechanically.	
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. 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:	Place in appropriate containers for disposal.	
6.4.	Reference to other sections		
	See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment. See Section 13 for information about containment.		

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 generat	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 inco	mpatibili	ities	
	Technical measures and storage conditions:	•	n tightly closed and upright set containers in a well ted place.	
	Packaging materials:	Manufa	acturer's original packaging.	
	Requirements for storage rooms and vessels:	Keep av	way from food and drink. Keep the containers closed.	
	Advices for storage equipment:	The storage must be made of hard material; floors resistant to chemicals. There must be no drain the directly leads into sewage system. Secure proper ventilation.		
	Further information on storage conditions:	and do	place the unused material in the storage room not use empty containers for storing other als. Do not store with incompatible materials (see 19).	



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7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

8.1. Control par			al protec	tion				
8.1. Control par Substance	Occ			nal exposure limit ort term values		Biological limit values		
					ppm	mg/m³		3
-		-			-	-	No ir	nformation available
Substance - name:								
EC No: -		CAS No:	-					
DNEL								
				Inc	dustrial			
Route of exposure:		Acute ect local	effe	Acute		Chronic effect local		Chronic effect systemic
Oral	-	et local	-	ct sys	terric	-		-
Inhalation	_		_			-		-
Dermal	-		-			-		-
Critical physical para	meters:	solubility, fla	mmabili	ty, coı	rosivity:	-		
				Co	nsumer			
Route of	A	Acute		Acute	9	Chronic		Chronic
exposure:	effe	ect local	effe	ct syst	temic	effect local		effect systemic
Oral	-		-			-		-
Inhalation	-		-			-		-
Dermal	-		-			-		-
PNEC					1			
Environmental protection	ction tar	get			PNEC			
Fresh water				rmation 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				



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Soil (agric	ultural)		No information available			
Air			No information available			
8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture relate measures to prevent expoduring 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 prexposure:	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 pr exposure:	event Secure proper workspace ventilation in order to keep conclevels in air below permitted levels.				
8.2.2.	Personal protection equip	oment				
8.2.2.1.	I. Eve and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection					
	Hand protection:	Chem 374.	mical protection gloves are suitable, which are tested according to EN Glove material: nitrile rubber Glove thickness: > 0.11 mm Break through time: >480 min			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long es (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	In cas	e of inadequate ventilation wear respiratory protection.			
8.2.2.4.	Thermal hazards:	No in	formation available			
8.2.3.	Environmental exposure	controls				
	Substance/mixture relate measures to prevent expe		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. Keep away from drains, surface and ground water.			
	Technical measures to prexposure:	event	See Section 6			

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties



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Trading name:	SODIUM METABISULFITE, SOLUTION						
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	Value	Method
Physical state:	liquid	No information available
Color:	colourless	No information available
Odour/odour threshold:	No information avaialble/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
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.				

SECTION 11. Toxicological information

Information on hazard classes as defined in Regulation (EC) No 1272/2008 11.1.



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Trading name:	SODIUM METABISULFITE, SOLUTION					
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Acute tox	icity:				
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposi time	RACILITE
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	-
Specific ta	arget organ toxicity – sin	gle exposure (STO	ΓSE):		
	Specifi	c effects	Targ	et organ	Note
Oral exposure:	No information av	ailable	No information available		-
Dermal exposure:	No information av	ailable	No information available		-
Inhalation exposure	e: No information av	ailable	No information available		-
Respirato	ry irritation:	No information	available		
	,				
Irritation a	and corrosion				
	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	-	-	_	
Eye irritation:	-	-	-	_	Causes serious eye damage
Sensitizat	ion				
Dermal exposure:	No information availab	ole			
Inhalation exposure:	No information availab	ole			
		ah anaka 1 anta a		. · · · ·	
	s related to the physical,		cological chara	acteristics	
Oral exposure:	No information avai				
Dermal exposure:	No information avai				
Inhalation exposure	e: No information avai	lable			



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Trading name:		SODIUM METABISULFITE, SOLUTION					
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Repeat	ed dose toxicity (su	bacute, subchr	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluation	1	Note
Subacute oral	No information available	No information available	No information available	No information available	No inform available	nation	-
Subacute dermal	No information available	No information available	No information available	No information available	No inform	nation	-
Subacute inhalation	No information available	No information available	No information available	No information available	No inform	nation	-
Subchronic oral	No information available	No information available	No information available	No information available	No inform available	nation	-
Subchronic dermal	No information available	No information available	No information available	No information available	No inform available	nation	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No inform available	nation	-
Chronic oral	No information available	No information available	No information available	No information available	No inform available	nation	-
Chronic dermal	No information available	No information available	No information available	No information available	No inform available	nation	-
Chronic inhalation	No information available	No information available	No information available	No information available	No inform available	nation	-
-							
Specific	target organ toxic	<u> </u>	•				
		Specific effect	ts	Target or			Note
Subacute oral		ation available		No information		-	
Subacute derma		ation available		No information		-	
Substranis and		ation available		No information		-	
Subchronic oral Subchronic derm		ation available		No information		-	



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Trading name:		SODIUM METAB	ISULFITE, SOLUTION	-	
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4

Subchro	onic inhalation	No information ava	ilable	No information available	-		
Chronic	oral No information availa		ilable	No information available	-		
Chronic	dermal	No information ava	ilable	No information available	-		
Chronic	inhalation	No information ava	ilable	No information available	-		
	CMR effects (c	carcinogenicity, mutag	genicity, repr	oductive toxicity)			
	Carcinogenicity:		No informa	ation available			
	Mutagenicity in-vitro:		No information available				
	Genotoxicity:		No information available				
	Mutagenicity in-vivo:		No information available				
	Germ cell mut	agenicity:	No information available				
	Reproductive	toxicity:	No information available				
				,			
	Summary of e	valuation of the CMR	properties:	-			
11.2.	Information o	n other hazards:					
11.2.1.	Endocrine disr	rupting properties:					
	No known properties tha	endocrine disrup t affect human health	-				
11.2.2.	Other informa	tions:					

CECTION 12) Ecological	information
SECTION 12	z. Ecolouicai	IIIIOIIIIauoii

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	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	8 days	No information available	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	No information available	-



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Crustacea:		EC ₅₀	48 hours		nformation lable	No ir	nformation able	No info	rmation e	-
Algae/aquatic plants		IC ₅₀	72 hours		nformation lable	No ir availa	nformation able	No info availabl	rmation e	-
Other organis	ms	-	-	micr	oorganisms	No ir availa	nformation able	No info availabl		-
12.2. Persi	istence	and degrad	dability							
Abio	tic deg	radation								
	De	gradation h	alf-lives		Method		Ev	aluation		Note
Marine water	No ir	nformation a	available	No inf	ormation avai	lable	No informat	tion avail	able	-
Fresh water	No ir	nformation a	available	No inf	ormation avai	mation available No information ava			able	-
۹ir	No ir	nformation a	available	No inf	ormation avai	ilable No information ava		tion avail	able	-
Soil	No ir	nformation a	available	No inf	information available No information avai			tion avail	able	-
Biod	egrada	ntion								
% Degradation Time (days)			M	Method Evaluation				No	te	
No informatio available			No infoi available	rmation e	No ir availa	nformation able		o informati ailable	on	
		lative poten						:		
		efficient: n-								
Value		entration	рН	°C	Method				N	ote
_	No information available		-	-	No informat available	ion	No informat available	tion	-	
	oncent	ration facto	r (BCF)							
Bioc	Value Species		Method		Evaluation			Note		
i i		Spe	cies		Method		Evaluation		INC	te



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	Chronic eco	toxicity								
	Value	Dose	•	osure me	Species	Meth	od	Evalua	ation	Note
Chronic	toxicity on fis	h LC ₅₀	LC ₅₀ No informat available			available		No inform available	nation	-
	toxicity on ea (<i>Daphnia</i>)	EC50	No inforr availa	nation in	No nformat on available	No inform available	nation	No inform available	nation	-
12.4.	Mobility in s	oil								
		edicted distribut	ion in e	environme	ntal comp	partments:				
		ion available								
	Surface tens	face tension:								
	Value	°C		Concen	tration	Meth	od	Note		
	No information available	No inforn available	nation	No inforr available		No inform available	nation	-		
	Adsorption ,	/ desorption								
Transpo	rt í	coefficient ry's constant	lo	g Kow	Evaporation rate M		ethod	١	Note	
Soil-wat	ter No availabl	information e	No information available		No info	ormation le	No information available		-	
Water-a	iir No availabl	information e	No information available		No info	ormation le	No inf availat	ormation ole	-	
Soil-air	No availabl	information e	No in availa	formation ble	No info	ormation le	No inf availat	ormation ole	-	
12.5.	Results of Pl	BT and vPvB asse	ccmant							
12.5.		ion available	Joinell							



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	No known endocrine disrupting	properties that affect the environment.		
12.7.	Other adverse effects			
	No adverse effects are expected	<u>l</u>		
	13. Disposal considerations			
13.1.	Waste treatment methods			
12.1.1	Duraturat/Darkarainan diananah			
13.1.1.	Product/Packaging disposal:	Lineare a subharinad butha Ministry of Favirence and Nature		
	Protection.	al person authorized by the Ministry of Environmental and Nature		
	1			
13.1.2.	Waste codes/waste designatio	ns according to Law:		
	No information available			
13.1.3.	Waste treatment – relevant information:			
	No information available			
13.1.4.	Sewage disposal – relevant info			
	Waste must not be disposed o	f into the sewage system.		
13.1.5.	Other disposal recommendation			
	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. Do not dispose of in places where ignition may occur.			
13.1.6.	Relevant Community provision	ns:		
	-			
	1 14. Transport information			
<u>i</u>	Transporting/shipment by road			
UN numb		Not subject to transport regulations.		
	er shipping name:	-		
•	t hazard class(es):	-		
Packing o		-		
Environm	Environmentally hazardous: -			



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Special precautions for user:	-
Transporting/shipment by rail (F	RID)
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	1)
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 (I	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	CAO-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: The product is	not subject to classification.

SECTION 15. Regulatory information		
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	EU regulations	



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	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 an Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 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 an 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 200 on the limitation of emissions of volatile organic compounds due to the use organic solvents in certain paints and varnishes and vehicle refinishing products an amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safet 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 1 December 2008 on classification, labelling and packaging of substances an mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, an 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 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 assessment			
	None			

SECTION 16. Other information		
16.1. Indication of char	-	



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16.2.	Abbreviations and acronyr	ADR: Accord relatif au transport international des marchandise 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 as source of data:	nd _			
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classification		Classification procedure			
_		-			
16.5.	Relevant H statements (nu	mber and full text)			
	302	Harmful if swallowed.			
	H: 318	Causes serious eye damage.			
	319	Causes serious eye irritation.			
	EUH031	Contact with acids liberates toxic gas.			
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