



SAFETY DATA SHEET

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Trading name:	POTASSIUM PERMANGANATE, 0.5% SO			ION
Product code:	KP05-OT-X**	Date of compilation	: 03.06.2019.	V

Version: 5

SECTI	ON 1 IDENTIFICATION	OF THE SU	JBSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING			
1.1.	Product identifier						
	Trading name:	POTASS	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
	Chemical name:	-	-				
	Catalogue number:	KP05-01	Г-Х**				
1.2.	Relevant identified use	es of the su	ubstance or mi	xture and uses advised against			
	Uses:		For use w	ith special staining kits.			
	Uses advised against:		Only the i	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:		BioGnost Ltd.	BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 24099	+385 1 2409997			
	Fax no.:	Fax no.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr				
	National contact:	National contact: -		-			
1.4.	Emergency telephone	Emergency telephone number					
	National Protection ar	nd Rescue	Directorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:	Other information:		-			

SECTIC	SECTION 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	v code:	Hazard statements*:			
	Aquatic Chronic 3		H412			
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-sta	atements: see S	ection 16			
2.2.	Classification according to EC Dire	ective Nr. 1272,	/2008 CLP)			
	Product identification:	POTASSIUM	PERMANGANATE, 0.5% SOLUTION			
	Identification number:	-				
	Authorization no.: -					
	Hazard pictograms:	-				
	Signal word:	-				



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	Hazard statements: H412 Harmful to aquatic life with long lasting effects.			
	Precautionary statements:	P273 Avoid release to the environmentP501 Dispose of contents/container in accordance with local regulations.		
	Further information:	-		
2.3.	Other hazards			
	-			

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)			
7722-64-7/ 231-760-3/ 025-002-00-9	-	<1%	potassium permanganate	Oxid. Solid 2; H272 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410			

SECTI	ON 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.		
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.		



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

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	Following	ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the more 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.				ea, es
4.3.	Indication	ation of any immediate medical attention and special treatment needed					

SECTI	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.					

SECTIC	SECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protect	ve equipment and emergency procedures			
6.1.1.	For non-emergency personne	1			
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (s	ee Section 8).			
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



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6.3.2.	Cleaning	up:	mater in tigl ventil perso Prote	e possible, the substance c ial (sand, diatomaceous ea ntly closed impermeable co ated storage rooms until d ns authorized by the Minis ction. After disposal of the rials with water.	arth, vermiculite). P ontainers. Store the lisposal. Submit for stry of Environmen	Place the waste material e substance in well r disposal to the legal tal and Nature
6.3.3.	Other inf	ormation: -				
6.4.	Reference	e to other sections				
	-					

SECTIO	TION 7 HANDLING AN 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: 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. Th	noroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incon	npatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.				
	Packaging materials:	Aanufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).				
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				



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8.1.	Control par	ameters							
	Substance CAS No		10	Occupational exposure limit values/short term values		Biological limit values			
					ppm	mg/m ³			
Potass	ium permang	anate	7722-6	4-7	-	5	No information available		
Substa name:	nce _								
EC No:	-		CAS No:	_					
DNEL									
					Industrial				
Route expos	-		Acute ect local	effe	Acute ect systemic	Chron effect lo			
Oral		-		-		-	-		
Inhalat	ion	-		-		-	-		
Dermal -			-		-	-			
Critica	physical para	meters: s	solubility, fla	mmabili	ty, corrosivity:	-			
					Consumer				
Route	of	4	Acute		Acute	Chron	ic Chronic		
expos	ure:	effe	ect local	effect systemic		effect lo	ocal effect systemic		
Oral		-		-		-	-		
Inhalat	ion	-		-		-	-		
Derma	1	-		-		-	-		
PNEC									
	nmental prote	ction tar	get		PNEC				
Fresh v						No information available			
	ater sedimen	ts				No information available			
Marine						No information available			
	e sediments					rmation availabl			
Food c						rmation availabl			
	organisms in s	ewage tr	eatment			No information available			
	gricultural)					rmation availabl			
Air					No info	rmation availabl	e		

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8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent expo during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to pr exposure:	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 pro 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					
			tective gloves must be according to the EU Directive 2016/425/EEC and ndard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	UTDAL CLID DLOTACTION.		ear antistatic clothing made of natural fibers (such as cotton) with long eeves (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	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 pro exposure:	event	See Section 6			

SECTIO	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES						
9.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Color: dark purple No information available						

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Odor:	odourless	No information available
Odor threshold:	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapor pressure:	No information available	No information available
Vapor density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	Soluble in water (20 °C)	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	No information available	No information available
Other information		

SECTIC	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.			

SECTIO	SECTION 11 TOXICOLOGICAL INFORMATION			
11.1.	Information on toxicological effects			
	Acute toxicity:			



Page 8 of 16 Trading name: **POTASSIUM PERMANGANATE, 0.5% SOLUTION** Product code: KP05-OT-X** Version: 5 Date of compilation: 03.06.2019. Effective dose Route of Method LD₅₀/LC₅₀ or Species Exposure time Results exposure: ATE_{mixture} No information No information Oral exposure: _ available available No information No information Dermal exposure: available available No information Inhalation No information available exposure: available Specific target organ toxicity - single exposure (STOT SE): Specific effects Target organ Note Oral exposure: No information available No information available _ No information available No information available Dermal exposure: _ Inhalation exposure: No information available No information available _ Respiratory irritation: No information available Irritation and corrosion Exposure time Evaluation Method **Species** Note Skin irritation: rabbit _ _ _ _ rabbit _ Eye irritation: _ -_ Sensitization No information available Dermal exposure: Inhalation No information available exposure: Symptoms related to the physical, chemical and toxicological characteristics Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. Oral exposure: In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation. Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure Dermal exposure: may cause drying, cracking and tingling sensation of skin. Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause Inhalation exposure: coughing, sneezing, headache and nausea. Direct eye contact may cause slight to moderate irritation, lacrimation and burning Eye exposure: sensation.

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Переше	d dose toxicity (sub			C)				
	Dose	Exposure time	Species		Method	Evaluatio	n No	ote
Subacute oral	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Subacute dermal	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Subacute inhalation	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Subchronic oral	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Subchronic No information dermal available		No information available	No informatio available	on	No information available	No informati available	on -	
Subchronic inhalation	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Chronic oral	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Chronic dermal	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Chronic inhalation			No informatio available	on	No information available	No informati available	on -	
Specific	target organ toxici	· · ·	xposure (S	TOT R				
		Specific effects		Target organ				Note
Subacute oral		ation available			nformation avai		-	
Subacute dermal		ation available			nformation avai		-	
Subacute inhalat		ation available			nformation avai		-	
Subchronic oral		ation available			nformation avai		-	
Subchronic derm		ation available			nformation avai		-	
Subchronic inhal	ation No inform	ation available		No ir	nformation avai	lable lable	-	

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Chroni	ic dermal	No informa	tion available		No information available	-
Chroni	ic inhalation	No informa	tion available	on available No information available -		
	CMR effects	(carcinogenicity	v, mutagenicity,	, repro	ductive toxicity)	
	Carcinogenic	city:	Current st	udies c	on test animals did not indicate ca	rcinogenic effects.
	Mutagenicity	ı in-vitro:	Current in	n vitro	tests did not indicate mutageni	c effects.
	Genotoxicity: Mutagenicity <i>in-vivo</i> :		No inform	ation a	available	
			Current in	Current <i>in vivo</i> tests did not indicate mutagenic effects. No information available		
	Germ cell mu	No inform				
	Reproductive	No toxicity on reproductive organs was determined in reproductive organs.				
	Summary of	evaluation of th	e CMR propert	ties:	-	
11.2.	Practical exp	eriences:				
	Remarks rele	evant for classifie	cation: I	No info	ormation available	
	Other remar	ks:	1	No info	ormation available	
11.3.	General note	es:				
	-					

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

Trading nar	ne:		PO	TASSI	UM PERMAN	GANA	ATE, 0.5 9	% SOLU		11 of 16
Product coc	le:	KP05-OT-X*	:*	Da	ate of compila	tion:	03.06.2	2019.	Versic	on: 5
Fish		LC ₅₀	96 hour	'C	lo information vailable	No infori availa	mation able	No inform availab		-
Crustacea:		EC ₅₀	48 hour	'C	lo information vailable	No infori availa	mation able	No inform availat		-
Algae/aquati	c plants	IC ₅₀	72 hour	c	lo information vailable	No infori availa	mation able	No inform availab		-
Other organi	sms	-	-	-		-		-		-
12.2. Pers	istenco	and degrada	hility							
		radation	onity							
		gradation ha	lf-lives		Method			Evaluatio	on	Note
Marine		oformation av		No information availabl		able	le No information av		vailable	-
Fresh water No information available		ailable	No in	formation availa	able	No inforr	nation av	vailable	-	
Air No information availab		ailable	No information available			No inforr	nation av	vailable	-	
Soil	No ir	nformation av	ailable	No in	formation availa	able	No inforr	nation av	vailable	-
Biod	legradat	tion								
% Degradati		Time (day	s)		Method		Evaluatio	on	Ν	lote
No informati available	-	o infor vailable		No information available			No information available		No information available	
12.3. Bioa	iccumula	ative potentia	al							
		efficient: n-oo	tanol/wat							
Value		entration	рН	°C	Method			ation		Note
-	No i availab	nformation le	-	-	No informationavailable		No information available		-	
					:				1	
	oncentr	ation factor (E			
Value Spe		Speci	es	Method No information			Evaluation No information		Note No information	

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Produc	t coc	de: k	(P05-OT-X**		Date	of co	mpilatio	on:	03.06.20	019.		Versic	on: 5	
	Chr	onic ecot	oxicity											
				Expo	osure									
	Va	lue	Dose		me	Sp	ecies	Me	thod		Evalua	ation	Note	
<u> </u>		·. c		No		No		No		No	inforr	nation		
Chronic	toxic	tity on fis	h LC ₅₀	availa		availa	mation able	availa	mation able	ava	ilable		-	
Chronic	tovic	rity on		No		No		No		No	infor	nation		
crustace			EC ₅₀				mation able	n information available		No information available		-		
				avalla	DIE	avalla		avalla	DIE					
12.4.	Mol	oility in se	oil											
	Known or predicted distribution in environmental compartments:							_						
	No	informati	on available											
	Surf	ace tensi	on:											
	``	Value	°C	Co	oncentrat	ion		Meth	Method		No	ote		
	No		No	No	No information		No inf	ormati	on					
		rmation lable	information available	avai	ilable		availat	ole			-			
	Ads	orption /	desorption	1										
Transpo	ort		coefficient	lo	g Kow	E١	/aporati	on rate	e l	Meth	od		Note	
		No	y's constant information	No in	formatio	n Ni	o inform	ation	Noir	form	ation			
Soil-wa	ter	availabl		availa			ailable	ation	availa		ation	-		
Water-a	air	No	information	-	formatio		o inform	nation	-	-	nation	_		
water t		availabl		availa			ailable		availa					
Soil-air		No availabl	information e	No in availa	formatioı ble		o inform ⁄ailable	nation	No ir availa		ation	-		
										-				
12.5.	Resu	ults of PB	T and vPvB ass	essment										
	No	informati	on available											
12.6.	Oth	er advers	e effects											
	No	informati	on available											

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	N 13 DISPOSAL CONSIDE	KATIONS						
13.1.	Waste treatment method	ds						
13.1.1.	Product/Packaging dispo	ncal.						
13.1.1.	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature							
	Protection.	le legal person authorized by the Ministry of Environmental and Nature						
13.1.2.	Waste codes/waste designations according to Law:							
	No information available							
13.1.3.	Waste treatment – releva	ant information:						
	No information available	2						
13.1.4.	Sewage disposal – releva	ant information:						
	Waste must not be disposed of into the sewage system.							
13.1.5.	Other disposal recomme	endations:						
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collect authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Sub the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places we ignition may occur.							
13.1.6.	Relevant Community pro	risions:						
	-							
SECTIO	N 14 TRANSPORT INFORM	MATION						
	Transporting/shipment by	road (ADR)						
UN number:		3082						
UN nun	per shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)						
		9						
UN pro	ort hazard class(es):	9						
UN pro		9 III						
UN pro Transpo Packing								
UN pro Transpo Packing Environ	group:	III						
UN pro Transpo Packing Environ	group: mentally hazardous:	III - - -						
UN pro Transpo Packing Environ	group: mentally hazardous: precautions for user: Transporting/shipment by	III - - -						

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Product code:	KP05-OT-X*	Date of compilation: 03.06.2019. Version: 5					
Transport hazard cl	ass(es):	9					
Packing group:		Ш					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Inland wat	erway transpor	t (ADN)					
UN number:		3082					
UN proper shipping	g name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)					
Transport hazard cl	ass(es):	9					
Packing group:		Ш					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Transporti	ng/shipment by	v sea (IMDG)					
UN number:		3082					
UN proper shipping	g name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)					
Transport hazard cl	ass(es):	9					
Packing group:		Ш					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Transporti	ng/shipment by	air (ICAO-TI/IATA-DGR)					
UN number:		3082					
UN proper shipping	g name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)					
Transport hazard cl	ass(es):	9					
Packing group:		Ш					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Further information	n: quantit	ubstances when carried in single or combination packagings containing a net y per single or inner packaging of 5 l or less for liquids or having a net mass per r inner packaging of 5 kg or less for solids, are not subject to classification.					

SECTIO	N 15 REGULATORY INFORM	IATION						
15.1.	Safety, health and environme	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations							
	Authorization and/or restrict	tions of use						
	Authorizations:	-						



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Trading name:	Р	OTASSIUM PERMANGANA	TE, 0.5% SOLU	JTION
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5

	Restrictions:	-
	Other EU regulations:	 EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 199 guideline)	9/13/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 assessmen	t
	None	

SECTIC	N 16 Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	PBT vPvB LD ₅₀ LC ₅₀ STOT-SE	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive th	e classification for mixture according to Regulation (EC)		
Classifie	Classification		Classification procedure		
-		-			
16.5.	5. Relevant H statements (number and full text)				



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Trading name: POTASSIUM PERMANGANATE, 0.5% SOLUTION						
Product code: KP05-OT-X**			Date of compilatior	: 03.06.2019.	Version: 5	
16.6.	H: H272 H302 H400 H410 Training a	2))	May intensify fire; oxidiser. Harmful if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with le	ong lasting effects.		
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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Tr	ading name:	SULFURIC ACID, 3% SOLUTION			
Pr	roduct code:	SK3-OT-X**	Date of compilation:	05 July 2019	Version: 3

SECTI	ON 1 IDENTIFICATION (OF THE SU	JBSTANCE	/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	SULFURI	SULFURIC ACID, 3% SOLUTION			
	Chemical name:	-	-			
	Catalogue number:	SK3-OT-	X**			
1.2.	Relevant identified use	s of the su	ubstance o	r mixture and uses advised against		
	Uses:		For u	se with special staining kits.		
	Uses advised against:		Only	the identified uses are advised.		
	Reason why uses advised against:		 The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes 			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost	BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent person:		msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone number					
	National Protection and Rescue Dire		Directorate	e: 112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIC	SECTION 2 HAZARDS INFORMATION				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)				
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous subst	ance.	-		
2.1.2.	Additional information				
	-				
*For ful	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16		
2.2.	Classification according to EC Dire	ective Nr. 1272,	(2008 CLP)		
	Product identification:	SULFURIC AC	ID, 3% SOLUTION		
	Identification number:	-			
	Authorization no.: -				
	Hazard pictograms:	-			
	Signal word:	-			

Trading name:	SULFURIC ACID, 3% SOLUTION			
Product code:	SK3-OT-X**	Date of compilation:	05 July 2019	Version: 3

	-	
2.3.	Other hazards	
	Further information:	-
	Precautionary statements:	-
	Hazard statements:	-

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)	
7664-93-9 / 231-639-5 / 016-020-00-8	-	≤ 3 %	sulfuric acid	Skin Corr. 1A; H314	

SECTI	TON 4 FIRST AID MEASURES				
4.1.	Description of first aid measures				
	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 ai	der: Treat symptomatically.			
4.2.	Most important symptoms and 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.			
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.			

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Trading name:	SULFURIC ACID, 3% SOLUTION			
Product code:	SK3-OT-X**	Date of compilation:	05 July 2019	Version: 3

	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 su	ubstance 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.				

SECTIC	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 (s	ee Section 8).				
6.2.	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3.	Methods and material for containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.					

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Trading name:		SULFURIC ACID, 3%	6 SOLUTION	
Product code:	SK3-OT-X**	Date of compilation:	05 July 2019	Version: 3

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

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Trading name:		SULFURIC ACID, 3%	SOLUTION		
Product code:	SK3-OT-X**	Date of compilation:	05 July 2019	Version:	3

8.1. Control para	meters						
Substance					l exposure limit rt term values	Biological limit values	
				ppm	mg/m ³		
-		-		-	-	No information available	
Substance							
EC No: -		CAS No:	-				
DNEL							
				Industrial			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chron effect lo		
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
Critical physical parar	neters: s	solubility, fla	mmabili	ty, corrosivity:	-		
				Consumer			
Route of		Acute		Acute		ic Chronic	
exposure:	effe	ect local	effe	ect systemic	effect lo	ocal effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
PNEC	tion tor	act		PNEC			
Environmental protec Fresh water	ation tar	yei			ormation availabl	<u>م</u>	
Freshwater sediments	5				ormation availabl		
Marine water	-				ormation availabl		
Marine sediments					ormation availabl		
Food chain					ormation availabl		
Microorganisms in sewage treatment					No information available		
Soil (agricultural)				No info	ormation availabl	e	
een (agnearearan)	Air				ormation availabl		

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Trading name:		SULFURIC ACID, 3%	6 SOLUTION	
Product code:	SK3-OT-X**	Date of compilation:	05 July 2019	Version: 3

8.2.1.	Engineering measures				
	Substance/mixture relate measures to prevent expo during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to pr exposure:	revent	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection 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				
	Hand protection:	Protective gloves must be according to the EU Directive 2016/425/EEC and standard 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 (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a for organic vapors, type "A" (boiling point >65°C) acording to EN ') used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	formation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture relate measures to prevent expe		See Section 6		
	Structural measures to pr exposure:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pr exposure:	event	See Section 6		

SECTI	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES					
9.1.	Information on basic physical and cher	nical properties				
		Value	Method			
	Physical state:	liquid	No information available			
	Color:	transparent	No information available			

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Trading name:		SULFURIC ACID, 3%	SOLUTION	
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Odor:	no odor	No information available
Odor threshold:	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapor pressure:	No information available	No information available
Vapor density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	Soluble in water (20 °C)	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	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:	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.			

SECTIO	SECTION 11 TOXICOLOGICAL INFORMATION		
11.1.	Information on toxicological effects		
	Acute toxicity:		



Trading name:		SUI FU	RIC ACID, 3% S			Page 8 of 16		
Product code:	SK3-OT-X**		-)5 July 2019		Version: 3		
Troduct code.		Date of	compliation.	55 July 2015	v			
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposu	re time	Results		
Oral exposure:	No information available	-	LD ₅₀	-		-		
Dermal exposure:	No information available	-	LD ₅₀	-		-		
Inhalation exposure:	No information available	-	LC ₅₀	-		-		
Specific tai	get organ toxicity – si	<u> </u>						
	•	c effects		et organ		Note		
Oral exposure:	No information a			tion available				
Dermal exposure:	No information a			tion available				
Inhalation exposure	: No information a	available	No informa	tion available	-			
Respiratory	/ irritation:	No infor	rmation available					
÷								
Irritation a	nd corrosion		ł	1 1				
	Exposure time	Species	Evaluation	Method		Note		
Skin irritation:	-	rabbit	-	-	-			
Eye irritation:	-	rabbit	-	-	-			
Sensitizatio								
Dermal exposure:	No information availa	able						
Inhalation exposure:	No information availa	able						
Sumatama	related to the physica	L chamical and	tovicological cha	ractorictics				
Symptoms	related to the physica		-		the me	th huming		
Oral exposure:	Swallowing may ca sensation; higher l In case of vomiting concentration may	evels of concer g, aspiration cau	itration may caus uses coughing, di	e nausea, abo	dominal p	pain and vomiting.		
Dermal exposure:	Slight irritation. Af may cause drying,	•	•		likely. Lo	ng-term exposure		
Inhalation exposure	: Inhalation of large coughing, sneezin		• •	ely ventilated	d perimet	er may cause		
Eye exposure:	Direct eye contact sensation.	may cause slig	ht to moderate ir	ritation, lacrir	mation ar	nd burning		

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Product code:	SK3-OT-X**	Date of compilation:	05 July 2019				

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		Oxicity (Sub	acute, subchro		C)				
	C	ose	Exposure time	Species		Method	Evaluatio	n	Note
Subacute oral	No in availab	formation le	No information available	formation information information informatic			-		
Subacute dermal	No in availab	formation le	No information available	nformation information information infor		No informat available	-	-	
Subacute inhalation	No in availab	formation le	No information available	No informati available	formation information informatio			-	
Subchronic oral	No in availab	formation le	No information available	No informati available	No No information informa		No information available		-
Subchronic dermal	No in availab	formation le	No information available	No informati available	on	No information available	No information available		-
Subchronic inhalation	No in availab	formation le	No information available	No informati available			No informat available		-
Chronic oral	No in availab	formation le	No information available	No information available		No information available	No informati available		-
Chronic dermal	No in availab	formation le	No information available	No informati available	on	No information available	No informat available		-
Chronic inhalation	No in availab	formation le	No information available	No informati available	on	No information available	No informat available		-
Specific	target o	5	y – repeated e	xposure (S	TOT F				
<u> </u>			pecific effects			Target orga			Note
Subacute oral			tion available			nformation avai		-	
Subacute dermal			tion available			nformation avai		-	
Subacute inhalati			tion available			nformation avai		-	
Subchronic oral			tion available			nformation avai		-	
Subchronic derm			tion available			nformation avai		-	
Subchronic inhalation No informa			tion available		No i	nformation avai	lable	-	

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Chroni	ic dermal	No informa	tion available	No information available -					
Chroni	ic inhalation	No informa	tion available	No information available -					
	CMR effects	(carcinogenicity	, mutagenicity	reproductive toxicity)					
	Carcinogenicity:		Current s	idies on test animals did not indicate carcinogenic effects.					
	Mutagenicity in-vitro:		Current a	vitro tests did not indicate mutagenic effects.					
	Genotoxicity:		No inforr	ation available					
	Mutagenicity in-vivo:		Current in vivo tests did not indicate mutagenic effects.						
	Germ cell mutagenicity:		No inforr	ation available					
	Reproductive	e toxicity:	No toxic organs.	No toxicity on reproductive organs was determined in reproductive organs.					
	Summary of	evaluation of th	ne CMR prope	ies: -					
11.2.	Practical exp	eriences:							
	Remarks rele	evant for classifi	cation:	lo information available					
	Other remarks:			No information available					
11.3.	General note	25:							
	-								

SECTION 12 ECOLOG	SECTION 12 ECOLOGICAL INFORMATION:							
12.1. 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 toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		

Trading name: Product code:

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Trading name:	SULFURIC ACID, 3% SOLUTION					
Product code:	SK3-OT-X**	Date of compilation:	05 July 2019	Version: 3		

Fish		LC ₅₀	96 hoi	urs No information available No information available			No informatio available	n -	
Crustacea: EC ₅₀ 48 h		48 hou	No information available		rmation lable	No informatio available	n -		
Algae/aquatic plants		IC ₅₀	72 hoi	urs No informationavailable	info	rmation ilable	No informatio available	n -	
Other organis	ms	-	-	-	-		-	-	
	stence a tic degra	nd degrad	dability						
		radation l	nalf-lives	Method			Evaluation		Note
Marine water		ormation		No information a	mation available No info		mation availa	ble	-
Fresh water	No inf	ormation	available	No information available		No information available			-
Air	No inf	ormation	available	No information available		No information available			-
Soil	No inf	ormation	available	No information av	available No information			ble	-
Biode	egradati	on							
% Degradatio	-	Time (d	ays)	Method		Evaluati	on	Nc	ote
No informatio available		inf ailable	ormation	No information available		No information available		No information available	

	ł						
12.3.	Bioaccur	nulative potentia	al				
	Partition	coefficient: n-o	ctanol/wate	er (log	Kow):		
Value Concentra		oncentration	рН	°C	Method Evaluat		Note
-	No ava	information ilable	-	-	No information available	No information available	-
	Bioconce	entration factor ((BCF)				
V	'alue	Speci	ies		Method	Evaluation	Note
No info availabl	ormation le	No in available	formation	n No information available			

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Trading	g name	:			SULI	URI	C ACID), 3% S	OLUTI	ON			age 12	
Produc	t code	: SK	(3-OT-X**		Date o	of co	mpilati	on: ()5 July	2019)	٧	ersion:	3
	Chron	ic ecoto	xicity											
Value Dose		Dose	Expo: tim		Spe	ecies	Met	thod		Evalı	uatio	n	Note	
Chronic	toxicity	/ on fish	LC ₅₀	No inform availab	ation	No inforr availa	mation able	No inforn availa	nation ble	1	info ilable	rmati e	on -	
Chronic toxicity on crustacea (<i>Daphnia</i>) EC ₅₀		EC ₅₀	No inform availab	ation	No inforr avail <i>a</i>	mation able	No inforn availa		1	info ilable	rmati e	on -		
12.4.	Mobili	ity in soi												
		•	dicted distributi	on in en	vironme	ntal c	compart	ments:						
	No inf	ormatio	n available											
	Surfac	e tensio	sion:											
	Va	lue	°C	Cor	ncentrati	on		Method					Note	
	No inform availat		No information available	No ir availa	nformatio able	on	n No information available			-				
	Adsor	ption / c	lesorption											
Transpo	rt		coefficient 's constant	log	Kow	E٧	vaporati	on rate		Meth	od		Ν	lote
Soil-wat	or	lo vailable	information	No info availab	ormatior le		o inform ailable	nation	No ir availa		natio	n	-	
Water-a	ur i	lo vailable	information	No info availab	ormatior le		o inform ailable	nation	No ir availa		natio	n	-	
Soil-air No information available		No information No inform available available		nation	No information available		n	-						
12.5.	Result	s of PBT	and vPvB asses	ssment										
	No inf	ormatio	n available											
12.6.	Other	adverse	effects											
	No inf	ormatio	n available											

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	1	1	1	1

1 7 1	N 13 DISPOSAL CONSIDE				
13.1.	Waste treatment metho	ds			
13.1.1.	Product/Packaging dispo	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 – releva	ant information:			
	No information available				
13.1.4.	4. Sewage disposal – relevant information:				
	Waste must not be dispo	osed of into the sewage system.			
13.1.5.	authorized by the minist	endations: 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 lectors authorized by the ministry in charge. Do not dispose of in places where			
13.1.6.	ignition may occur.				
15.1.0.	Relevant Community pro				
	1				
SECTIO	N 14 TRANSPORT INFORI	MATION			
	Transporting/shipment by	road (ADR)			
UN num	nber:	Not subject to transport regulations.			
UN prop	per shipping name:	-			
Transpo	ort hazard class(es):	-			
Packing	group:	-			
Environ	mentally hazardous:	-			
Special	precautions for user:	-			
	Transporting/shipment by	rail (RID)			
UN number:		Not subject to transport regulations.			
UN num					
	per shipping name:	-			

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Trading name:	SULFURIC ACID, 3% SOLUTION						
Product code:	SK3-OT-X**		Date of compilation:	05 July 2019	Version: 3		
Packing group:		-					
Environmentally hazardous:		-					
Special precautions for user:		-					
Inland waterway transport (ADN)							

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 (IN	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: The product is	not subject to classification.

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

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Trading name:					
Product code:	SK3-OT-X**	Date of compilation:	05 July 2019	Version: 3	

	Other EU regulations:	 EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 1999 guideline)	/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 assessment	
	None	

SECTIO	SECTION 16 Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	PBT vPvB LD ₅₀ LC ₅₀ STOT-SE	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			
16.4. Classification and procedure used to derive 1272/2008 (CLP)			e classification for mixture according to Regulation (EC)		
Classific	cation (Classification procedure			
-					
16.5.	Relevant H statements (numbe	r and full text)			
	Н: Н314 (Causes severe skin burns and eye damage.			
16.6.	Training advice:				



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Trading name:	SULFURIC ACID, 3% SOLUTION					
Product code:	SK3-OT-X**	Date of compilation: 05 July 2	019 Version: 3			
Troduct code.		Date of compliation. 05 July 2				

		** "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:

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EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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Trading name:	OXALIC ACID, 1% SOLUTION					
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version:	3	

SECTI	ON 1 IDENTIFICATION (OF THE SU	JBSTAN	CE/MI)	(TURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier						
	Trading name:	OXALIC	ACID, 1%	% SOLU	TION		
	Chemical name:	-					
	Catalogue number:	OKS1-O	T-X**				
1.2.	Relevant identified use	s of the su	ubstance	e or mix	ture and uses advised against		
	Uses:		For	use wit	th special staining kits.		
	Uses advised against:		Onl	ly the ic	lentified uses are advised.		
	Reason why uses advis	ised against: The product is intended for use only as an <i>in vitro</i> diagnost medical device, registered at the Agency for Medicinal Proc Medical Devices and there is no reason to use it for other p					
1.3.	Details of the supplier	of the safe	ety data :	sheet			
	Supplier:		BioGno	ost Ltd.			
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997				
	Fax no.:		+385 1 2404039				
	e-mail of competent p	erson:	<u>msds@</u>	biogno	ost.hr		
	National contact:		-				
1.4.	Emergency telephone	number					
	National Protection an	d Rescue	Rescue Directorate:		112		
	Medical information:				+385 1 2348 342		
	Other information:				-		

SECTIC	CTION 2 HAZARDS INFORMATION						
2.1.	Classification of the substance or	mixture					
2.1.1.	Classification (REGULATION (EC)	No. 1272/2008	(CLP)				
	Hazard class and category	/ code:	Hazard statements*:				
	Not identified as hazardous subst	ance.	-				
2.1.2.	Additional information						
	-						
*For ful	ll text of Hazard- and EU Hazard-sta	atements: see S	ection 16				
2.2.	Classification according to EC Dire	ective Nr. 1272/	2008 CLP)				
	Product identification:	OXALIC ACID	1% SOLUTION				
	Identification number:	-					
	Authorization no.:	-					
	Hazard pictograms:	-					
	Signal word:	-					

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Page 2 of 16 Trading name: **OXALIC ACID, 1% SOLUTION** OKS1-OT-X** Version: 3 Product code: Date of compilation: 03.06.2019.

	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	-	

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)	
-	-	-	-	-	

SECTI	ON 4 FIRST AID MEASURES			
4.1.	Description of first aid measures			
	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 ai	der: Treat symptomatically.		
4.2.	Most important symptoms and 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.		
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.		

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Trading name:	OXALIC ACID, 1% SOLUTION			
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3

	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	
	-	

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.		

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 Section 8).			
6.2.	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and material for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		



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Trading name:	OXALIC ACID, 1% SOLUTION						
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3			

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	N 7 HANDLING AN STORAGE	CTION 7 HANDLING AN 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	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. Th	oroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities						
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.					
	Packaging materials:	Manufacturer's original packaging.					
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.					
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.					
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).					
7.3.	Specific end use(s)						
	Recommendations:	-					
	Industrial sector specific solutions:	-					



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Trading name: **OXALIC ACID, 1% SOLUTION** OKS1-OT-X** Version: 3 Product code: Date of compilation: 03.06.2019.

8.1. Co	ntrol paran	neters							
Su				exposure limit t term values	Biological limit values				
					ppm	mg/m ³			
			-	-	No information available				
Substance name:	-		1	1					
EC No:	-		CAS No:	-					
DNEL									
					Industrial				
Route of exposure:			Acute ect local	effe	Acute ect systemic	Chron effect lo			
Oral		-		-		-	-		
Inhalation		-		-		-	-		
Dermal	Dermal		-		-	-			
Critical phy	sical param	eters: s	olubility, fla	mmabilit	ty, corrosivity:	-			
					Consumer				
Route of			Acute		Acute	Chron			
exposure:		effe	ect local	effe	ect systemic	effect lo	ocal effect systemic		
Oral		-		-		-	-		
Inhalation		-		-		-	-		
Dermal		-		-		-	-		
PNEC									
Environmer	•	ion tar	get		PNEC				
Fresh water						rmation availabl			
Freshwater						rmation availabl			
Marine wat						rmation availabl			
Marine sed	ments					rmation availabl			
Food chain	• •					rmation availabl			
Microorgan		vage tro	eatment			No information available			
Soil (agricultural)						rmation availabl			
Air					INO INFO	rmation availabl	le		

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Trading name:	OXALIC ACID, 1% SOLUTION						
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3			

8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses: Structural measures to prevent exposure:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
			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 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				
			tective gloves must be according to the EU Directive 2016/425/EEC and ndard 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 (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	formation available		
8.2.3.	Environmental exposure	controls			
	Substance/mixture relate measures to prevent expe		See Section 6		
	Structural measures to pr exposure:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pr exposure:	event	See Section 6		

SECTI	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES						
9.1.	Information on basic physical and chemical properties						
	Value Method						
	Physical state:	liquid	No information available				
	Color: colourless No information available						

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Other information		
Explosive properties: Oxidising properties:	No information available No information available	No information available
Viscosity:	No information available	No information available
 Decomposition temperature:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
 Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Solubility(ies):	Soluble in water (20 °C)	No information available
Bulk density:	No information available	No information available
Relative density:	No information available	No information available
Vapor density:	No information available	No information available
Vapor pressure:	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Evaporation rate:	No information available	No information available
Flash point:	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Melting point / freezing point;	No information available	No information available
pH:	No information available	No information available
Odor threshold:	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.		

SECTIO	SECTION 11 TOXICOLOGICAL INFORMATION				
11.1.	Information on toxicological effects				
	Acute toxicity:				



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Trading name:	OXALIC ACID, 1% SOLUTION						
Product code:	OKS1-OT-X**	Date of	compilation: 03.06.201			Version: 3	
						1	
Route of exposure:	Method	Species	Effective dos LD ₅₀ /LC ₅₀ o ATE _{mixture}		re time	Results	
Oral exposure:	No information available	-	LD ₅₀	-	•	-	
Dermal exposure:	No information available	-	LD ₅₀	-	•	-	
Inhalation exposure:	No information available	-	LC ₅₀			-	
Specific tar	rget organ toxicity – si	nale exposure (STOT SE):				
	<u> </u>	c effects		get organ		Note	
Oral exposure:	No information a	available		ation available	<u> </u>		
Dermal exposure:	No information a	available	No inform	ation available	. –		
Inhalation exposure	: No information a	available	No inform	ation available	<u>-</u>		
Respirator	/ irritation:	No info	rmation availabl	e			
T							
Irritation a	nd corrosion	Cracias	Fueluetie	n Method		Noto	
Skin irritation:	Exposure time	Species rabbit	Evaluatio		_	Note	
Eye irritation:	-	rabbit		_	_		
	<u> </u>						
Sensitizatio	on						
Dermal exposure:	No information availa	able					
Inhalation exposure:	No information availa	able					
Symptoms	related to the physica	l. chemical and	toxicological ch	aracteristics			
Symptoms			5		the m	outh burning	
Oral exposure:	Oral exposure: 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.					pain and vomiting.	
Dermal exposure:	mal exposure: Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure may cause drying, cracking and tingling sensation of skin.					ong-term exposure	
Inhalation exposure	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.					eter may cause	
Eye exposure:	Direct eve contact may cause slight to moderate irritation, lacrimation and burning					and burning	

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Trading name:		OXALIC ACID, 1%	SOLUTION		
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version:	3

кереаце	u uose	toxicity (sub	acute, subchro	onic, chroni	C)	1	1		1
		Dose	Exposure time	Species		Method	Evaluatio	n	Note
Subacute oral	No iı availal	nformation ble	No information available			on	-		
Subacute dermal	No iı availal	nformation ble	No information available			No information available	No information available		-
Subacute inhalation	No iı availal	nformation ole	No information available	information information in		No informati available	on	-	
Subchronic oral	hronic oral No information available		No information available	No information available		No information available	No informati available	on	-
Subchronic dermal			No information available	No information available		No information available	No informati available	on	-
Subchronic inhalation	No iı availal	nformation ole	No information available	nformation information information information		No informati available	on	-	
Chronic oral	No iı availal	nformation ole	No information available	No information available		No information available	No informati available	on	-
Chronic dermal	No iı availal	nformation ole	No information available	No information available		No information available	No informati available	on	-
Chronic inhalation	No iı availal	nformation ble	No information available	No informati available	on	No information available	No informati available	on	-
Specific	target o	5	y – repeated e	xposure (S	IOT F	•			NI. 1
Subscuts and			pecific effects		N.a. :	Target orga			Note
Subacute oral Subacute dermal	1		tion available			nformation avai nformation avai		-	
Subacute dermai			tion available			nformation avai		-	
Subchronic oral			tion available					-	
Subchronic derm	nal		tion available			No information available No information available		-	
Subchronic inhal			tion available			nformation avai		-	
Chronic oral			tion available			nformation avai		-	

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Trading name:		OXALIC ACID, 1%	SOLUTION	
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3

Chroni	ic dermal	No informa	tion available	No information available	-			
Chroni	ic inhalation	No informa	tion available	No information available	-			
	CMR effects	(carcinogenicity	, mutagenicity	reproductive toxicity)				
	Carcinogenic	city:	Current st	dies on test animals did not indicate	e carcinogenic effects.			
	Mutagenicity <i>in-vitro</i> : Currer		Current <i>ii</i>	vitro tests did not indicate mutag	enic effects.			
	Genotoxicity: No inf			ation available				
	Mutagenicity <i>in-vivo</i> : Currer			ent in vivo tests did not indicate mutagenic effects.				
	Germ cell mu	utagenicity:	No inform	information available				
	Reproductive	Reproductive toxicity: No toxicity on reproductive organs was determined in reproduction organs.						
	Summary of	evaluation of th	ne CMR proper	ies: -				
11.2.	Practical exp	eriences:						
	Remarks rele	evant for classifi	cation:	lo information available				
	Other remarks:			No information available				
11.3.	General note	25:						
	-							

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

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Trading name:	OXALIC ACID, 1% SOLUTION						
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3			

Fish		LC ₅₀	96 hou	rc	o information /ailable		rmation ilable	No inform availab		
Crustacea:		EC ₅₀	48 hou	rc	o information /ailable			No inform availab		
Algae/aquati	c plants	IC ₅₀	72 hou	rc	o information /ailable	information		No inform availab		
Other organi	sms	-	-	-				-		
12.2. Pers	istence a	and degrada	bility							
Abio	otic degr	adation		ŝ			-			
	Degradation half-lives				Method		Evalua		on	Note
Marine water	No in	No information available		No inf	No information available No info		No infori	rmation available		-
Fresh water	No in	formation av	vailable	No information available		No information available		-		
Air	No in	formation av	vailable	No inf	formation avail	able	No infori	mation av	ailable	-
Soil	No in	formation av	vailable	No int	formation avail	able	No infor	nation available -		
Bioc	legradat	ion								
% Degradati	on	Time (day	/s)		Method		Evaluati	on	N	ote
No informati available		o infor ailable	mation	No info availabl			o informat ⁄ailable	ion	No informa available	tion
12.3. Bioa	ccumula	ative potentia	al							
		efficient: n-o		iter (log	Kow):					
Value		entration	pН	°C	Method		Evalu	uation		Note
-	No i availab	nformation le	-	-	No informati available	on	No infori available		-	

avai	lable	available	available	
Bioconce	ntration factor (BCF)			
Value	Species	Method	Evaluation	Note
No information available	No information available	No information available	No information available	No information available

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Trading r	name:				OXA	LIC	ACID,	1% S	OLUTIC	N				01 10
Product of	code:	OKS1-	-OT-X**		Date of	f coi	mpilatic	on:	03.06.2	019.		Versio	n:	3
	hranic ac	otovicit												
i	Chronic eco Value		Dose	Expos tim		Spe	ecies	Me	thod		Evalua	tion		Note
Chronic toxicity on fish LC ₅₀		LC ₅₀	No inform availab	No rmation information			No information available		information _ ilable					
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No inform availab	ation ir	lo nforr vaila	nation Ible	No informa		1	lo information - vailable		-		
12.4. N	/lobility in	soil												
			d distributi	on in en	vironmen	tal c	ompartr	ments:						
N	Io informa	ation av	ailable											
S	urface ter	nsion:												
	Value		°C	Cor	ncentratio	n		Meth	nod			Nc	te	
ir	NoNoinformationinformationavailableavailable		ormation	No information No infor available available			ormation -							
A	dsorption	n / deso	rption											
Transport		/D coefi enry's co		log Kow Evaporatio		on rate Method			N	ote				
Soil-water	No availa		formation	No info availab	ormation le		o inform ailable	ation	No ir availa		nation	-		
Water-air	No availa		formation	No info availab	ormation le		o inform ailable	ation	No ir availa	-	nation	-		
Soil-air	No information		formation	No info availab	ormation le		o inform ailable	ation	No ir availa		nation	-		
			VPvB asses	sment										
Ν	lo informa	ation av	ailable											
12.6. C)ther adve	erse effe	ects											
N	lo informa	ation av	ailable											

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

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Trading name:		OXALIC ACID, 1%	SOLUTION		
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version:	3

13.1.	N 13 DISPOSAL CONSIDE			
13.1.	Waste treatment method	ds		
13.1.1.	Product/Packaging dispo	ocali		
13.1.1.				
	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	<u>j</u>		
13.1.3.	Waste treatment – releva	ant information:		
	No information available	2		
13.1.4.	Sewage disposal – releva	ant information:		
	Waste must not be disposed of into the sewage system.			
	I I	5 7		
13.1.5.	Other disposal recomme	andations:		
10.1.0.				
13.1.3.	Do not dispose of the pr authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where		
	Do not dispose of the pr authorized by the minist the packaging to the col	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where		
13.1.6.	Do not dispose of the pr authorized by the minist the packaging to the col ignition may occur.	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where		
	Do not dispose of the pr authorized by the minist the packaging to the col ignition may occur. Relevant Community pro	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where		
13.1.6.	Do not dispose of the pr authorized by the minist the packaging to the col ignition may occur. Relevant Community pro	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where pvisions:		
13.1.6.	Do not dispose of the pr authorized by the minist the packaging to the col ignition may occur. Relevant Community pro	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where povisions:		
13.1.6. SECTIO	Do not dispose of the pr authorized by the minist the packaging to the col ignition may occur. Relevant Community pro - N 14 TRANSPORT INFORI Transporting/shipment by	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where povisions:		
13.1.6. SECTIO UN num	Do not dispose of the prauthorized by the minist the packaging to the colignition may occur. Relevant Community pro- N 14 TRANSPORT INFORI Transporting/shipment by aber:	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where povisions: MATION road (ADR)		
13.1.6. SECTIO UN num UN prop	Do not dispose of the pr authorized by the minist the packaging to the col ignition may occur. Relevant Community pro - N 14 TRANSPORT INFORI Transporting/shipment by	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where ovisions: MATION road (ADR) Not subject to transport regulations.		
13.1.6. SECTIO UN num UN prop Transpo	Do not dispose of the prauthorized by the minist the packaging to the colignition may occur. Relevant Community pro- N 14 TRANSPORT INFORI Transporting/shipment by aber: per shipping name: ort hazard class(es):	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where povisions: MATION road (ADR) Not subject to transport regulations. -		
13.1.6. SECTIO UN num UN prop Transpo Packing	Do not dispose of the prauthorized by the minist the packaging to the colignition may occur. Relevant Community pro- N 14 TRANSPORT INFORI Transporting/shipment by aber: per shipping name: ort hazard class(es):	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where povisions: MATION road (ADR) Not subject to transport regulations. - -		
13.1.6. SECTIO UN num UN prop Transpo Packing Environi	Do not dispose of the prauthorized by the minist the packaging to the colignition may occur. Relevant Community pro- N 14 TRANSPORT INFORI Transporting/shipment by aber: per shipping name: ort hazard class(es): group:	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where ovisions: MATION road (ADR) Not subject to transport regulations. - - -		
13.1.6. SECTIO UN num UN prop Transpo Packing Environi	Do not dispose of the prauthorized by the minist the packaging to the colignition may occur. Relevant Community pro- N 14 TRANSPORT INFORM Transporting/shipment by aber: per shipping name: ort hazard class(es): group: mentally hazardous:	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where ovisions: MATION road (ADR) Not subject to transport regulations. - - - - - - - -		
13.1.6. SECTIO UN num UN prop Transpo Packing Environi Special	Do not dispose of the prauthorized by the minist the packaging to the colignition may occur. Relevant Community produced and a second	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where ovisions: MATION road (ADR) Not subject to transport regulations. - - - - - - - -		
13.1.6. SECTIO UN num UN prop Transpo Packing Environi Special UN num	Do not dispose of the prauthorized by the minist the packaging to the colignition may occur. Relevant Community produced and a second	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where ovisions: MATION MATION road (ADR) Not subject to transport regulations. - - - - rail (RID)		

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Trading name:	OXALIC ACID, 1% SOLUTION						
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3			

Packing group:		-	
Environmentally hazardous:		s: -	
Special pre	ecautions for us	er: -	
Ir	nland waterway	transport (ADN)	
UN numbe	er:	Not subject to transport regulations.	
UN prope	r shipping name	: -	
Transport	hazard class(es)	:	
Packing gr	oup:	-	
Environme	entally hazardou	s: -	
Special pre	ecautions for us	er: -	
Т	ransporting/shi	oment by sea (IMDG)	
UN numbe	er:	Not subject to transport regulations.	
UN prope	r shipping name	: -	
Transport	hazard class(es)	:	
Packing gr	oup:	-	
Environme	entally hazardou	s: -	
Special pre	ecautions for us	er: -	
Т	ransporting/shi	oment by air (ICAO-TI/IATA-DGR)	
UN numbe	er:	Not subject to transport regulations.	
UN prope	r shipping name	: -	
Transport hazard class(es):		: -	
Packing group:		-	
Environmentally hazardous:		s: -	
Special pre	ecautions for us	er: -	
Further information: The product is not subject to classification.			

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

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Trading name:		ding name: OXALIC ACID, 1% SOLUTION					
Produ	uct code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3		
	Other EU	regulations:	EC Regulation No. 1906/2007 and European Parliament and the Euro The European Commission Regula and amendments to the Regulation Parliament and Council on registry restriction of chemical substances EC Regulation No. 2037/200 of the 29 June 2000 on substances that of EC Regulation No. 689/2008 of the 17 June 2008 concerning the expo EC Regulation No. 850/2004 of the 29 April 2004 about persistent or Directive 2008/98/EC of the Europ November 2008 on waste and rep	opean Council; ation No. 453/2006 o on (EC) No. 1907/200 ation, evaluation, au (REACH); e European Parliame damage the ozone la e European Parliame ort and import of da e European Parliame ganic pollutants; pean Parliament and	of 2010 on changes 06 of the European thorization and ent and Council from ayer; ent and Council from ngerous chemicals; ent and Council from Council of 19		
	Information guideline)	-	/13/EC about limitation of emission	s of volatile organic	compounds (VOC-		
	National I	egislation:	Chemicals Act, Regulation on clas dangerous substances, Ordinance and on biological limit values, Reg classification of waste with a wast Ordinance on writing Material saf Substances Act	on occupational ex gulation on categori e catalog and list of	posure limit values es, types and hazardous waste,		
15.2	Chomical	cafaty according					

	Substances Act
15.2.	Chemical safety assessment
	None

SECTIO	SECTION 16 Other information			
16.1.	Indication of changes:	-		
		РВТ	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 source of data:	-		
16.4. Classification and procedure use 1272/2008 (CLP)		ed to derive the	classification for mixture according to Regulation (EC)	
Classific	cation C	lassification pro	cedure	
-	-			
16.5.	Relevant H statements (numbe	r and full text)		
	H:			
16.6.	Training advice: -			



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Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3	

		** "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:	A	MMONIUM IRON SULFATE, SOLUTION			
Product code:	ASF-OT-X**	Date of compilation:	24 Sept 2019	Version:	4

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking		
1.1	Product identifier	t identifier				
	Trading name:	AMMONIUI	M IRON S	ULFATE, SOLUTION		
	Chemical name:	-				
	Catalogue number:	ASF-OT-X**				
1.2	Relevant identified use	s of the subst	tance or n	nixture and uses advised against		
	Uses:		For use	with Reticulin and Reticulin Contrast staining kits.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advis	ed against:	against: The product is intended for use only as an <i>in vitro</i> diagnost medical device, registered at the Agency for Medicinal Products a Medical Devices and there is no reason to use it for other purpose			
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			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection an	d Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIC	ON 2. Hazards identification				
2.1	Classification of the substance	or mixture			
2.1.1	Classification according to Reg	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Not identified as hazardous su	bstance.	-		
2.1.2.	Additional information				
	-				
*For ful	ll text of Hazard- and EU Hazard-	-statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	AMMONIUM IR	ON SULFATE, SOLUTION		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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Trading name:		AMMONIUM IRON SULF	IMONIUM IRON SULFATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	24 Sept 2019	Version:	4

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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

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



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Trading name:		AMMONIUM IRON SULF	ATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	24 Sept 2019	Version:	4
		According to our findings			

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

SECTIO	ON 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media: wat	ter spray, dry powder, CO_2 or alcohol resistant foam			
	Unsuitable extinguishing media: Wa	iter with full jet			
5.2	Special hazards arising from the substa	ance or mixture			
	Hazardous combustion products: no	information available			
5.3	Advice for firefighters				
	Use a self-contained open-circuit comp	pressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with wate contaminate the environment with exti	er spray. Collect contaminated fire fighting water separately. Do not nguishing media.			

SECTIO	ON 6. Accidental release meas	ures			
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 t without protective equipment. Avoid breathing vapo contact with skin and eyes. Do not smoke. Keep away sources.				
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in c (see Section 8).	ase of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			



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Trading name:		AMMONIUM IRON SULF	ATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	24 Sept 2019	Version:	4

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

SECTIO	DN 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.				
	Measures to protect the environment: and waterways.					
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. The	noroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incon	npatibilities				
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.			
	Packaging materials:	Manufactu	urer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away tightly clo	ay from food and drink. Keep the containers osed.			
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain tly leads into sewage system. Secure proper n.			
	Further information on storage conditions:	and do no	ace the unused material in the storage room ot use empty containers for storing other . Do not store with incompatible materials on 10).			



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Trading name:		AMMONIUM IRON SULF	ATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	24 Sept 2019	Version:	4

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

SECTIO	ON 8. Expos	ure contro	ols/perso	onal pro	tection			
8.1	Control pa	rol parameters						
	Substance				cupational exposure limit alues/short term values		Biological limit values	
						ppm	mg/m ³	U U
-				-		-	-	-
Substa	ance name:	_						
EC No:		_	CAS No):				
DNEL	·	1		•				
					Inc	dustrial		
Route expos	-	Acu effect			Acute t systemic		Chronic effect local	Chronic effect systemic
Oral		-	locul	-	i systemic	_	chectiocal	-
Inhalat	tion	-		-		-		-
Derma		-		-		-		-
Critica	l physical pai	rameters: s	olubility,	flamma	bility, cor	rosivity:	-	·
					Co	nsumer	i	
Route expos			cute ct local		Acute t systemie	Chronic ic effect local		Chronic effect systemic
Oral		-		-		-		-
Inhalat	tion	-		-		-		-
Derma	al	-		-		-		-
PNEC								
Enviro	nmental prot	ection tar	get			PNEC		
Fresh v	water					no inforn	nation available	
Freshw	vater sedime	nts				no information available		
Marine water				no information available				
Marine sediments				no information available				
Food chain			no inforn	nation available				
Microorganisms in sewage treatment			no information available					
Soil (ag	gricultural)					no inforn	nation available	
Air						no inforn	nation available	



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8.2	Exposure controls					
8.2.1.	Appropriate engineering controls	s				
	Substance/mixture related measu prevent exposure during identifie		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:		In accordance with Section 7.			
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of low levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.				
8.2.2.2.	Skin protection					
8.2.2.2.	Hand protection:		otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min			
	Other skin protection:	footwe entire impern	everyday work use cotton clothing (EN 340) and suitable bar, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemical PVC, himex) and footwear made from the same material.			
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GV			
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	nodern equipment.			
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.			



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION								
Product code:	ASF-OT-X**	Date of compilation:	24 Sept 2019	Version:	4				

Technical measures to prevent	See Section 6	
exposure:	See Section 0	

.1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	light brown	No information available
	Odour:	No information available	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
	Partition coefficient: n- octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
9.2	Other information		

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



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION						
Product code:	ASF-OT-X**	Date of compilation:	24 Sept 2019	Version:	4		

10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No dangerous reactions known.
10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
10.5	Incompatible materials:	No further relevant information available.
10.6	Hazardous decomposition products:	No dangerous decompostion products known.

11.1 Inform	nation on to	kicologic	al effects						
Acute	toxicity:								
Route of exposure:	Meth	nod	Species	Do	ose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exp	osure tir	ne	Results
Oral:	-		-		information ilable		-		-
Dermal:	-		-		information ilable		-		-
Inhalation:	-		-		information ilable		-		-
Specif	ic target org	an toxici	ity – single ex	kposure (S	TOT SE):				
		Spe	cific effects		Target o	organ			Note
Oral:	No inf	ormatio	n available		No information available		9	-	
Dermal:	No inf	ormatio	n available		No information available			-	
Inhalation:	No inf	ormatio	n available	No information available			-		
Aspira	tion hazard:			No infor	mation available.				
È									
Irritati	on and corro	osion							
	:	Exposu	ire time	Spec	ies Evaluati	on I	Method		Note
Skin corrosion/irrita	tion:			-	-	-		-	
Serious eye damage/irritati	on -			-	-	-		-	
Sensit	ization								
Skin sensitizati	on:	No in	formation av	ailable.					
Respiratory ser	vitization	Noin	formation av	ailabla					



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Trading name:			ΔΜΜ	ONIUM IRON	SUII FATF		Page 9 01 10	
	٨с						Version:	л
Product code:	AS	SF-OT-X**	Da	ite of compilat	ion: 24	Sept 2019	version:	4
Sympto	ms rela	ated to the ph	ysical, chemic	al and toxicolog	ical characte	eristics		
Oral exposure:		Harmful if sw	allowed.					
Dermal exposure	2:	Harmful if ab	sorbed throug	jh skin. May cau	se skin irrita	tion.		
Inhalation expos	ure:	Harmful if inl	haled. May cau	ise respiratory t	ract irritatior	۱.		
Eye exposure:		May cause ey	ye irritation.					
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)				
		Dose	Exposure time	Species	Method	Evaluatior	n Note	
Subacute oral	No availa	information able	No information available	No information available	No informatic available	No informatic available	on -	
Subacute dermal	No information available		No information available	No information available	No informatic available	No informatic available	on -	
Subacute inhalation	No availa	information able	No information available	No information available	No informatic available	No informatic available	on -	
Subchronic oral	No availa	information able	No information available	No information available	No informatic available	No informatic available	on -	
Subchronic dermal	No availa	information able	No information available	No information available	No informatic available	No informatic available	on -	
Subchronic inhalation	No availa	information able	No information available	No information available	No informatic available	No informatic available	on -	
Chronic oral	No availa	information able	No information available	No information available	No informatic available	No informatic available	on -	
Chronic dermal	No availa	information able	No information available	No information available	No informatic available	No informatic available	on -	
Chronic inhalation	No availa	information able	No information available	No information available	No informatic available	No informatic available	on -	
Ĩ								
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):		1	
			Specific effec	ts	Targ	Note		
Subacute oral		No informa	ition available		No informa	ation available	-	
Subacute oral Subacute dermal			•	ts	No informa	et organ ation available ation available		e



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Page 10 of 16 Trading name: **AMMONIUM IRON SULFATE, SOLUTION** Product code: ASF-OT-X** Date of compilation: 24 Sept 2019 Version: 4 Subacute inhalation No information available No information available _ Subchronic oral No information available No information available _ Subchronic dermal No information available No information available -Subchronic inhalation No information available No information available _ Chronic oral No information available No information available _ Chronic dermal No information available No information available _ Chronic inhalation No information available No information available _ CMR effects (carcinogenicity; mutagenicity; reproductive toxicity) Carcinogenicity: Based on available data, the classification criteria are not met. Mutagenicity in vitro: Based on available data, the classification criteria are not met. Genotoxicity: Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Mutagenicity in vivo: Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met. Summary of evaluation of the CMR Based on available data, the classification criteria are not properties: met. 11.2 **Practical experiences:** Classification observations: No information available Other observations: No information available 11.3 General notes: _

SECTION 12. Ecological information									
12.1 Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-			
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-			



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Trading name:	Α	AMMONIUM IRON SULFATE, SOLUTION							
Product code:	ASF-OT-X**	Date of compilation:	24 Sept 2019	Version:	4				

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

1	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	-	
Biode % Degradati	gradation on Time (days)	Method	Evaluation	Note	
No information No information available available		No information available	No information available	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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name:											age 12 of 10		
					IIUM	IRON S	SULFAT	re, so	LUTION	N			
t code:	ASF-O	T-X**		Date	of co	mpilatio	on:	24 Sep	ot 2019		Version:	4	
				:			:			:		:	
Bioconcer	ntration fa	actor (BCF)										
alue		Species		M	lethoo	b	E١	/aluatio	on		Note		
mation	No		nation			on			on	-			
9	availabl	e		available	е		availab	le					
Chronic e	cotoxicity	,											
Value		Dose	-		Spe	ecies	Meth	nod	Evalu	ation	Not	e	
				inne	No		No		No				
toxicity on	fish	LC ₅₀				mation	-	ation		ation	-		
,		50	available av		availa	available availa		ailable availal		le			
toxicity on			No						No				
-		EC ₅₀									n -		
			avalla	able	avalla	able	avallau	ne	avallaD	le			
Mobility i	n soil												
		distribut	ion in 6	anvironme	antal	comparti	monte						
						lomparti	ments.						
		mable											
		۰۲	0	oncentrat	ion		Mothe	d			Note		
	No	<u> </u>		oncentiat	.1011		wethe				Note		
		rmation			ion			n	-				
available	avai	ilable	dVa	anabie		avallat	Die						
Adsorptio	n / desor	ption	1					1					
	A/D coeff		le	og Kow	F۱	vaporatio	on rate	ſ	Method		Note		
rt				3.000	L)	. aporatio							
rt 👘	enry's co			No information		information No inform		mation No inform					
rt H er No	inf	ormation					ation			on	-		
rt H	inf able		availa		av	o inform ⁄ailable o inform		availa			-		
	Chronic en Chronic en Value toxicity on toxicity on a (Daphnic Mobility in Known or No inform Surface te Value No informatic	alue No mation No available available Chronic ecotoxicity Value Chronic ecotoxicity Value toxicity on fish toxicity on fish toxicity on a (Daphnia) Mobility in soil Mobility in soil Known or predicted No information available Surface tension: Value No No No information information	Indication No Species mation No information available available Chronic ecotoxicity Dose Chronic ecotoxicity Dose toxicity on fish LC ₅₀ toxicity on a (Daphnia) EC ₅₀ Mobility in soil EC ₅₀ Mobility in soil Surface tension: Value °C No information No information	mation No information available information Chronic ecotoxicity Dose Exp Value Dose toxicity toxicity on fish LC ₅₀ No toxicity on a (Daphnia) EC ₅₀ No Mobility in soil Known or predicted distribution in e No information available Surface tension: Value °C C No information No No information No	Alue Species N mation No information No information available available available available chronic ecotoxicity Dose Exposure time Value Dose No information available toxicity on fish LC ₅₀ No information available toxicity on a (Daphnia) EC ₅₀ No information available Mobility in soil Known or predicted distribution in environme No information available Surface tension: No No information information information information information available No No No No Information available No information available No information available	Induction No Species Method mation No information No information available information available available Chronic ecotoxicity Dose Exposure Species Value Dose Exposure Species toxicity on fish LC ₅₀ No information toxicity on a (Daphnia) EC ₅₀ No No Mobility in soil EC ₅₀ No information Mobility in soil EC ₅₀ No information Mobility in soil EC ₅₀ No information No information available available available No information available Surface tension: Value °C No information available available	Induction Species Method mation No information No information available available available available available available available available Chronic ecotoxicity Dose Exposure time Species Value Dose No No information available toxicity on fish LC50 No information available available toxicity on a (Daphnia) EC50 No No information available Mobility in soil EC50 No information available available No information available Surface tension: Value °C Concentration available No information information available	Induction Species Method Exposure available mation No information available No information available No information available e available Dose Exposure time Species Method Value Dose Exposure time Species Method toxicity on fish LC ₅₀ No information available No information available No information available toxicity on a (Daphnia) EC ₅₀ No information available No information available No information available Mobility in soil Known or predicted distribution in environmental compartments: No information available No information available Surface tension: °C Concentration available No information available	Induction Species Method Evaluation mation No information No information No information available available No information available No information chronic ecotoxicity Dose Exposure Species Method toxicity on fish LC ₅₀ No No No information toxicity on a (Daphnia) EC ₅₀ No No No information Mobility in soil EC ₅₀ No No information available Mobility in soil Surface tension: Value °C Concentration Method No information available No information available available	Induction Species Method Evaluation mation No information No information No information available available available No information available chronic ecotoxicity Dose Exposure Species Method Evalue Value Dose Exposure No No information available available toxicity on fish LC ₅₀ No No information available No information available toxicity on a (Daphnia) EC ₅₀ No No No information available available available No information available Mobility in soil EC ₅₀ No No information available available available Surface tension: °C Concentration No information available available available available No information available No information available available available	Induction Species Method Evaluation mation No information No information No information available available No information available Information available available Species No information available Chronic ecotoxicity Dose Exposure time Species Method Evaluation toxicity on fish LC ₅₀ No No information available No information available No toxicity on a (Daphnia) EC ₅₀ No No No information available No information available available vailable Mobility in soil Known or predicted distribution in environmental compartments: No information available second<	Induction Species Method Evaluation Note mation No information available No information available No information available No information available No information available No information available Image: Species information available No information available Image: Species information information No No Chronic ecotoxicity Dose Exposure time Species Method Evaluation Not toxicity on fish a (Daphnia) LC ₅₀ No No No No No information available No No information available No information available No No information available available information available available No information available available information available available No information available available information available available No information available available No information available available information available available available available available available available available available available information available<	



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Tradino	g name:		AMMONI	JM IRON SULF	ATE, SOLUTION	Page 13 of 1	<u> </u>				
Produc	-	ASF-OT-X**	Date of	compilation:	24 Sept 2019	Version:	4				
Soil-air	No availa	information able	No information available	No information available	No information available	-					
12.5	Results of	PBT and vPvB asse	ssment								
	Not applic	able.									
12.6	Other adv	erse effects									
	No furthe	relevant informati	on available.								
SECTIO	N 13. Disp	osal consideration	IS								
13.1	Waste tr	reatment methods									
13.1.1.	Product	/Packaging disposa	l:								
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.										
13.1.2.	Waste codes/waste designations according to Law:										
	15 01 10 substanc		ontains residual h	azardous substan	ces or is contaminate	ed with hazardo	ous				
13.1.3.	Waste tr	eatment – relevant	information:								
	No infor	mation available									
13.1.4.	Sewage	disposal – relevant	information:								
	Waste m	nust not be dispose	d of into the sewa	ge system.							
13.1.5.	Other di	Other disposal recommendations:									
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collect authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Su the packaging to the collectors authorized by the ministry in charge.										
13.1.6.	Relevant Community provisions:										
	Disposa	must be made acc	ording to official r	egulations.							
SECTIO		ISPORT INFORMA									
UN num	•	ng/shipment by ro		o transport regul	ations						
	per shipping	n name:	-		auulis						



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Trading name:		Α	MMONIUM IRON SULF	ATE, SOLUTION		
Product code:	ASF-OT-X**		Date of compilation:	24 Sept 2019	Version:	4
	1		1	2	:	:
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Transporti	ng/shipment by rail (RI	D)				
UN number:		Not	t subject to transport regul	ations		
UN proper shipping	g name:	-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally has	zardous:	-				
Special precautions	for user:	-				
Inland wat	erway transport (ADN)					
UN number:		Not	t subject to transport regul	ations		
UN proper shipping	g name:	-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Transporti	ng/shipment by sea (IN	/DG)				
UN number:		Not	t subject to transport regul	ations		
UN proper shipping	g name:	-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Transport in bulk a of MARPOL 73/78 a	and the IBC code:	-				
Transporti	ng/shipment by air (IC	40-T	I/IATA-DGR)			
UN number:		Not	t subject to transport regul	ations		
UN proper shipping	g name:	-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Further information	: -					



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION							
Product code:	ASF-OT-X**	Date of compilation:	24 Sept 2019	Version:	4			

15.1	ON 15. Regulatory information Safety, health and environ	nmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or rest	Authorization and/or restrictions of use					
	Authorizations:	-					
	Restrictions:	-					
	Other EU regulations:	 EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives 					
	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						

SECTIO	SECTION 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%			
		тсој	Specific target organ toxicity - single exposure			
16.3.	Key literature references and source of data:	-				



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Trading name:	A	AMMONIUM IRON SULFATE, SOLUTION						
Product code:	ASF-OT-X**	Date of compilation:	24 Sept 2019	Version:	4			

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

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:		SILVER AMMONIA S	OLUTION		
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SILVER AM	MONIA SC	DLUTION	
	Chemical name:	-			
	Catalogue number:	SA-OT-X**			
1.2	Relevant identified use	s of the subs	tance or m	nixture and uses advised against	
	Uses:		For use v	with Reticulin and Reticulin Contrast staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advis	ed against:	The product is intended for use only as an <i>in vitro</i> diagnost against: medical device, registered at the Agency for Medicinal Proc Medical Devices and there is no reason to use it for other p		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnos	t 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 substar	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and ca	tegory code:	Hazard statements*:			
	Aquatic Chronic 3		H412			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Haza	ard-statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	SILVER AMMON	JIA SOLUTION			
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	-				
	Signal word:	-				



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Trading name:	SILVER AMMONIA SOLUTION				
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

	Hazard statements:	H412 Harmful to aquatic life with long lasting effects.		
	Precautionary statements:	P273 Avoid release to the environmentP501 Dispose of contents/container in accordance with local regulations.		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	-			

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)			
7761-88-8/ 231-853-9/ 047-001-00-2	-	< 1 %	silver nitrate	Ox. Sol. 2; H272 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410			
1336-21-6/ 215-647-6/ 007-001-01-2	-	< 2 %	ammonia	Skin Corr. 1B; H314 Aquatic Acute 1; H400			

SECT	TION 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			
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.			



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Trading name:	SILVER AMMONIA SOLUTION				
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

	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:	Danger of gastric perforattion.
4.3	Indication of any immediate me	edical attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Water spray, foam, dry powder, CO_2 or alcohol resistant foam.			
	Unsuitable extinguishing media:	Water with full jet.			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Nitrogen oxides (NOx). During heating or in case of fire poisonous gases are produced.			
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 environme	ent with extinguishing media.			

SECTIO	ECTION 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, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



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Trading name:		SOLUTION			
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

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 on personal protection equipment.		
	See Section 13 for disposal information.		

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. Keep away from sources of ignition and heat.			
	Measures to prevent aerosol and dust generation	tion: 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. Th	oroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:		phtly closed and upright set containers at res ranging from +2 to +8 °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 be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.			
	Further information on storage conditions:	and do no	ace the unused material in the storage room t use empty containers for storing other Do not store with incompatible materials on 10).			
7.3	Specific end use(s)					
	Recommendations:	-				



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Trading name:		SOLUTION			
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

Industrial sector specific solutions:

-

SECTION 8. Expos	ure contro	ols/perso	onal protec	tion				
8.1 Control pa	arameters							
Substance		CA	S No			exposure limit term values	Biological limit values	
				F	opm	mg/m ³		
Silver (as Ag)			-		-	0.01	-	
Ammonia		133	6-21-6	2	0/50	14/36		
Substance name:	-					1		
EC No:	-	CAS No	: -					
DNEL								
				Ind	ustrial			
Route of	Αсι		Acut			Chronic	Chronic	
exposure:	effect	local	effect sys	stemic		effect local	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
Critical physical par	rameters: s	solubility,	flammabilit	-		-		
	1		1	Con	sumer			
Route of	Aci		Acut			Chronic	Chronic	
exposure:	effect	local	effect sys	stemic		effect local	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
PNEC					DNICC			
Environmental prot	ection tar	get			PNEC			
Fresh water					no information available			
Freshwater sediments					no information available			
Marine water					no information available			
Marine sediments					no information available			
Food chain					no information available			
Microorganisms in	sewage tr	eatment			no information available			
Soil (agricultural)					no information available			
Air					no intorn	nation available		

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Trading name:		SILVER AMMONIA	SOLUTION		
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

8.2	Exposure controls					
8.2.1.	Appropriate engineering controls					
	Substance/mixture related measurprevent 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 preve exposure:	nt	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exp	posure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.				
8.2.2.2.	Skin protection					
	Hand protection: Protect		ective nitrile gloves, >0.11 mm thick (EN 374).			
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotto with long sleeves (EN 340) and shoes that cover the entire fo				
8.2.2.3.	Respiratory protection:	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present.				
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.			
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.			
	Technical measures to prevent exposure:	See Se	ction 6			

SECTION 9. Physical and chemical properties					
9.1	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	No information available		

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Trading name:		SILVER AMMONIA	SOLUTION		
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

	Colour:	colourless	No information available
	Odour:	mild ammonia like	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
	Partition coefficient: n- octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	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 (room temperature).			
10.3	Possibility of hazardous reactions:	No dangerous reactions known.			
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



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Tradin	g name:		SILVER AMMONIA	SOLUTION		
Produc	ct code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5
11.1	Informatio	on on toxicological effects				

Acute 1	toxicity:				
Route of exposure:	Method	Method Species		Exposure time	Results
Oral:	-	_	-	-	-
Dermal:	-	-	-	-	-
Inhalation:	-	-	-	-	-
Creatifi		it. circle cure			
Specifi	c target organ toxic	lity – single expo	sure (STOT SE):		
	Spe	ecific effects	Target o	organ	Note
Oral:	No informatio	on available	No information a	available -	
Dermal:	No informatio	on available	No information a	available -	
Inhalation:	No informatic	on available	No information a	available -	

Aspiration	hazard:

No information available.

	Exposure time	Species	Evaluation	Method	Note			
Skin corrosion/irritation:	-	-	-	-	-			
Serious eye damage/irritation	-	-	-	-	-			
Sensitization								
Skin sensitization:	-							
Respiratory sensitizati	on: -							
Symptoms re	elated to the physical, che	mical and toxicol	ogical character	istics				
Oral exposure:	No information availabl	le.						
Dermal exposure:	No information available.							
Inhalation exposure: No information availab		le.						
	No information availabl	۵						
Eye exposure:	INO INFORMATION AVAILABLE	ie.						
•	NO INFORMATION AVAILAD	ie.						
Eye exposure:	se toxicity (subacute, sub							



Subchronic dermal

Chronic oral

Chronic dermal

Chronic inhalation

Subchronic inhalation

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Trading name:		SILVER AMMONIA SOLUTION							
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5				

Subacute oral	No i availa	nformation ble	No information available	No information available	No information available	No informatio available	on	-
Subacute dermal	No i availa	nformation ble	No information available	No information available	No information available	No informatio available	on	-
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 informatio available	on	-
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 informatio available	on	-
Chronic oral	No information available		No information available	No information available	No information available	No information available		-
Chronic dermal	No i availa	nformation ble	No information available	No information available	No information available	No informatio available	on	-
Chronic No information available			No information available	No information available	No information available	No informatio available	on	-
Specific	target	organ toxicit	y – repeated e	xposure (STOT I	RE):		1	
			Specific effec	ts	Target o	0		Note
Subacute oral			tion available		No informatior		-	
Subacute dermal		No informa	tion available		No informatior	n available	-	
Subacute inhalat	ion	No informa	tion available		No informatior	n available	-	
Subchronic oral		No informa	tion available		No information available -			

No information available

-

-

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CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)

No information available



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Trading name:		SILVER AMMONIA	SOLUTION		
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

	Carcinogenicity:	No information available.				
	Mutagenicity <i>in vitro</i> :	No information available.				
	Genotoxicity:	No information available.				
	Mutagenicity <i>in vivo</i> :	No information available.				
	Germ cell mutagenicity:	No information available.				
	Reproductive toxicity:	No information available.				
	Summary of evaluation of the CMR properties:	No information available.				
11.2	Practical experiences:					
	Classification observations:	-				
	Other observations:	-				
11.3	General notes:					
	-					

SECTION 12. Ecological information								
12.1 Toxicity								
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	Leuciscus idus (Golden orfe)	-	-	0.011 mg/l (silver nitrate)		
Crustacea:	EC ₅₀	48 hours	Daphnia magna (Water flea)	-	-	0.0082 mg/l (silver nitrate)		
Algae/aquatic plants	IC ₅₀	4 days	Pseudokirchner iella subcapitata (green algae)	-	-	0.19 mg/l (silver nitrate)		
Other organisms	-	-	-	-	-	-		
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-		
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-		



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Tradin	g name	2:				SILVER AMM	ONIA	SOLUTIO			-
Produc	ct code	: 9	SA-OT-X**		l	Date of compilat	ion:	09 July	/ 2019	Version:	5
											:
Algae/a	aquatic	plants	IC ₅₀	72 hours	5	No information available	No infor avail	mation able	No information available	-	
Other c	organisr	ns	-	-		-	-		-	-	
12.2	Persis	tence a	and degrada	bility							
	Abioti	c degr	adation		-						
		D	egradation h	nalf-lives		Method		Evaluation	1	Note	
Marine	water	No	information	available		o information ailable	No i avail	nformation able	-		
Fresh water No i		information	available		o information ailable	No i avail	nformation able	-			
Air No i		information	mation available		o information ailable	No information available		-			
Soil No i		information	ormation available		No information available		No information				
					1				1		
	Biode	gradat	ion								
% De	egradati	on	Time	(days)	Method			Evaluation	1	Note	
No info availabl	ormatior le	ו	No iı available	nformation	No information available					o information ailable	
12.3	Bioaco	cumula	ative potenti	al							
			er partition		log	Kow)					
Valu	ie	Conc	entration	рН	°C	Method		Evalua	ition	Note	
-	-			_ .	-	-		-	-		
	Bioco	ncentra	ation factor	(BCF)							
V	/alue		Spec	ies		Method		Evaluatio	on	Note	
No info availabl	ormatior le		No ir available	formation		o information ailable	No informati available		on -		



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Trading name:		SILVER AMMONIA	SOLUTION		
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5
Chronic	ecotoxicity				

	Chronic e	cotoxicity	y	: :			1	1		÷
	Value		Dose	Exposure time	Spe	cies	Meth	od	Evaluation	Note
Chronic	toxicity on	fish	LC ₅₀	No information available	No information available		No informa availab	ation i	No nformation available	-
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No information available	No inform availa		No informa availab	ation i	No nformation available	-	
12.4	Mobility in	n soil								
	Known or predicted distribution in environmental compartments:									
	No information available									
	Surface te	ension:								
	Value		°C	Concentration			Metho	d		Note
			ormation ailable	No informat available	ion	on No information available		ו	-	
Transpo	ort	n / desoi A/D coeff lenry's cc	ficient	log Kow	Ev	aporatio	on rate	M	ethod	Note
Soil-wa	iter No avail		formation	No informatio available		No information available		No information available		-
Water-	air No avail		formation	No informatio available				No info availab	ormation le	-
Soil-air	No avail		formation	No informatio available		o inform ailable	nation	No info availab	ormation le	-
12.5	Results of	PBT and	l vPvB asses	ssment						
	No inform	nation av	ailable							
12.6	Other adv	erse effe	ects							
	No inform	nation av	ailable							
SECTIC	N 13. Disp	osal con	sideration	s						



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Trading name:	SILVER AMMONIA SOLUTION					
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5	

1711						
13.1.1.	Product/Packaging dispo					
	Submit for disposal to the Protection.	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.				
13.1.2.	Waste codes/waste desig	gnations according to Law:				
	Packaging that contains	residual hazardous substances or is contaminated with hazardous substances				
13.1.3.	Waste treatment – releva	ant information:				
	No information available	<u>.</u>				
13.1.4.	Sewage disposal – releva	int information:				
	Waste must not be dispo	osed of into the sewage system.				
13.1.5.	Other disposal recomme	ndations:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.					
	Relevant Community provisions:					
13.1.6.	Relevant Community pro	ovisions:				
13.1.6.	Relevant Community pro	ovisions:				
13.1.6.	Relevant Community pro	ovisions:				
	Relevant Community pro					
SECTION	-	ΛΑΤΙΟΝ				
SECTION	- N 14 TRANSPORT INFORM Transporting/shipment by	ΛΑΤΙΟΝ				
SECTION UN num	- N 14 TRANSPORT INFORM Transporting/shipment by	MATION road (ADR)				
SECTION UN num UN prop	- N 14 TRANSPORT INFORM Transporting/shipment by ber:	AATION road (ADR) 3082				
SECTION UN num UN prop Transpor	- N 14 TRANSPORT INFORM Transporting/shipment by ber: ber shipping name: rt hazard class(es):	MATION road (ADR) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)				
SECTION UN num UN prop Transpoi Packing	- N 14 TRANSPORT INFORM Transporting/shipment by ber: ber shipping name: rt hazard class(es):	MATION road (ADR) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9				
SECTION UN num UN prop Transpoi Packing Environn	- N 14 TRANSPORT INFORM Transporting/shipment by ber: ber shipping name: rt hazard class(es): group:	MATION road (ADR) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9 III				
SECTION UN num UN prop Transpor Packing Environn Special p	- N 14 TRANSPORT INFORM Transporting/shipment by ber: ber shipping name: rt hazard class(es): group: nentally hazardous:	MATION road (ADR) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9 III - - -				
SECTION UN num UN prop Transpor Packing Environn Special p	- N 14 TRANSPORT INFORM Transporting/shipment by ber: ber shipping name: rt hazard class(es): group: nentally hazardous: brecautions for user: Transporting/shipment by	MATION road (ADR) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9 III - - -				
SECTION UN num UN prop Transpor Packing Environn Special p UN num	- N 14 TRANSPORT INFORM Transporting/shipment by ber: ber shipping name: rt hazard class(es): group: nentally hazardous: brecautions for user: Transporting/shipment by	MATION road (ADR) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9 III - - rail (RID)				
SECTION UN num UN prop Transpoi Packing Environn Special p UN num UN prop	- N 14 TRANSPORT INFORM Transporting/shipment by ber: ber shipping name: rt hazard class(es): group: nentally hazardous: brecautions for user: Transporting/shipment by ber:	MATION road (ADR) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9 III - - rail (RID)				
SECTION UN num UN prop Transpoi Packing Environn Special p UN num UN prop	- N 14 TRANSPORT INFORM Transporting/shipment by ber: ber shipping name: rt hazard class(es): group: nentally hazardous: brecautions for user: Transporting/shipment by ber: ber shipping name: rt hazard class(es):	MATION road (ADR) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9 III - - rail (RID) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9 III - - sologa rail (RID) Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)				
SECTION UN num UN prop Transpor Packing Environn Special p UN num UN prop Transpor Packing	- N 14 TRANSPORT INFORM Transporting/shipment by ber: ber shipping name: rt hazard class(es): group: nentally hazardous: brecautions for user: Transporting/shipment by ber: ber shipping name: rt hazard class(es):	MATION road (ADR) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9 III - - rail (RID) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9 III - rail (RID) 3082 Environmentally hazardous substance, liquid, n.o.s. (silver ammonium) 9				

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Trading name:	SILVER AMMONIA SOLUTION				
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

UN number:	3082	
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)	
Transport hazard class(es):	9	
Packing group:	ш	
Environmentally hazardous:	-	
Special precautions for user:	-	
Transporting/shipment by sea (II	MDG)	
UN number:	3082	
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)	
Transport hazard class(es):	9	
Packing group:	ш	
Environmentally hazardous:	-	
Special precautions for user:	-	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-	
Transporting/shipment by air (IC	AO-TI/IATA-DGR)	
UN number:	3082	
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)	
Transport hazard class(es):	9	
Packing group:	ш	
Environmentally hazardous:	-	
Special precautions for user:	-	

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



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Trading name:	SILVER AMMONIA SOLUTION				
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

	Other EU regulations:	 EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 1999 guideline)	9/13/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 assessmen	t
	None	

SECTIO	SECTION 16. Other information			
16.1	Indication of changes:	-		
16.2	Abbreviations and acronyms:	PBT vPvB LD ₅₀ LC ₅₀	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50%	
		тсој	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the	e classification for mixture according to Regulation (EC)	
Classification		Classification pro	ocedure	
-		-		
16.5. Relevant H statements (number and full text)				



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Trading name:		SILVER AMMONIA	SOLUTION		
Product code:	SA-OT-X**	Date of compilation:	09 July 2019	Version:	5

	H:	H272 H314 H400 H410 H412	May intensify fire; oxidiser. Causes severe skin burns and eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects
16.6.	16.6. Training advice:		-
16.7.			 ** "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:		4% FORMALDEHYDE,	ALCOHOLIC SOLUTIC	DN	
Product code:	F4A-OT-X**	Revision date:	26 June 2019	Version:	3

	CTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1	Product identifier					
	Trading name:	4% FORMA	4% FORMALDEHYDE, ALCOHOLIC SOLUTION			
	Chemical name:	-				
	Catalogue number:	F4A-OT-X**	r -			
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against		
	Uses:		For use	with Reticulin and Reticulin Contrast staining kits.		
	Uses advised against:		Only the	identified uses are advised.		
	Reason why uses advis	ses advised against: medical device, registered at the Agency for		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 sheet					
	Supplier:		BioGnost Ltd.			
	Address:	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent person:		msds@biognost.hr			
	National contact:		-	-		
1.4	Emergency telephone	Emergency telephone number				
	National Protection an	d Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ECTION 2 HAZARDS INFORMATION					
2.1	Classification of the substar	Classification of the substance or mixture				
2.1.1	Classification according to	(EC) Regulation N	o. elements			
	Hazard class and ca	tegory code:	Hazard statements*:			
	Flam. Liq. 2		H225			
	Skin. Sens. 1		H317			
	Resp. Sens. 1		H334			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Haza	ard-statements: se	ee Section 16			
2.2	Label elements					
	Product identification:	Product identification: 4% FORMALDEHYDE, ALCOHOLIC SOLUTION				
	Identification number:	-				
	Authorization no.:	-				



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Trading name: Product code: F4A-OT-X**			4% FORMALDEHYDE,	ALCOHOLIC SOLUTI	ON	
		F4A-OT-X**	Revision date:	26 June 2019	Version:	3
	Hazard pi	ctograms:	GHS02 GHS07 GHS08			
	Signal wo	rd:	Danger			
	Hazard st	atements:	H225 Highly flammable H317 May cause an alle H334 May cause allergy inhaled.	gic skin reaction.	r breathing difficult	ties if
	Precautio	nary statements:	smoke. P261 Avoid breathing c	gloves/protective clothin Wash with plenty of wat Remove person to fresh g.	ours. ng/eye/protection/t er. air and keep	face
	Further in	formation:	-			
2.3	Other haz	ards	:			

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)				
64-17-5/ 200-578-6/ 603-002-00-5	_	≥ 50 %	ethanol	Flam. Liq. 2; H225				



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Trading name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION							
Product code:	F4A-OT-X**	Revision	date:	26 June 201	.9	Version:	3	
30525-89-4/ 608-494-5/ -		< 4 %	paraf	ormaldehyde	Skin Irr. 2 Skin. Sen Eye Dam. Acute To:	s. 1; H317		

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
	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

SECTI	SECTION 5 FIREFIGHTING MEASURES					
5.1	Extinguishing media					
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO_2 Large fire - water spray or alcohol-resistant foam				

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

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Trading name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION				
Product code:	F4A-OT-X**	Revision date:	26 June 2019	Version:	3

	Unsuitable extinguishing media:	No information available		
5.2	Special hazards arising from the su	ibstance or mixture		
	Hazardous combustion products:	Not flammable. Surrounding fire may cause hazardous fumes to be released.		
5.3	Advice for firefighters			
	Use a self-contained open-circuit of	compressed air breathing apparatus and fireproof clothing.		
5.4	Additional information			
	Do not contaminate the environme	ent with extinguishing media.		

SECTIO	ON 6 ACCIDENTAL RELEASE ME	ASURES		
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 c (see Section 8).	case of inadequate ventilation use adequate airways protective equipment		
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 cont	ainment 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			
	-			

SECTION 7 HANDLING AN STORAGE			
7.1	Precautions for safe handling		
7.1.1.	Protection measures		



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Trading name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION				
Product code:	F4A-OT-X**	Revision date:	26 June 2019	Version:	3

	Measures to prevent fire:		Use in well ventilated storage rooms.		
	Measures to prevent aerosol and dust generation	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		-		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incom	npatibilities			
	Technical measures and storage conditions:		ghtly closed and upright set containers in a ated storage roomsat temperatures ranging > 25 °C.		
	Packaging materials:	Manufactu containers	turer's original packaging. Avoid metal 's.		
	Requirements for storage rooms and vessels:	Keep away tightly clo	vay from food and drink. Keep the containers closed.		
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain Ily leads into sewage system. Secure proper n.		
	Further information on storage conditions:	Do not place the unused material in the storage roc 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:	-			

SECTIO	N 8 EXPOSU		TROLS/PERSO	IAL	PROTECTION		
8.1	Control para	ameters					
	Substance		CAS No			exposure limit term values	Biological limit values
					ppm	mg/m ³	
Ethanol			64-17-5		1000/-	1900/-	-
Substan	nce name:	-					
EC No:		-	CAS No:	-			
DNEL							
					Industrial		



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Trading na Product co Route of exposure: Oral		F4A-OT-X**			E, AL	COHOLIC SO	LUTION
Route of exposure:	ode:	F4A-OT-X**	Povici	-			
exposure:			REVISIO	on date:		26 June 2019	Version: 3
exposure:							
-		Acute	Acute			nronic	Chronic
Oral		effect local	effect systemi	с	effe	ct local	effect systemic
		-	-	-			-
Inhalation		-	-	-			950 mg/m ³ (ethanol)
Dermal		-	-	-			343 mg/kg (ethanol)
Critical phys	sical para	meters: solubility	γ, flammability, co	rrosivity:		-	
			Co	onsumer			
Route of		Acute	Acute		Chro	onic	Chronic
exposure:		effect local	effect systemic		effect	local	effect systemic
Oral		-	-	-			-
Inhalation		-	-	-			114 mg/m ³ (ethanol)
Dermal		-	-	-			206 mg/kg (ethanol)
PNEC							
Environmen	ntal prote	ction target		PNEC			
Fresh water				0.96 mg/	l (eth	anol)	
Freshwater	sediment	ts		3.6 mg/k	g (eth	nanol)	
Marine wate	er			0.79 mg/	l (eth	anol)	
Marine sedi	iments			no inforr	natior	n available	
Food chain				no inforr	natior	n available	
Microorgan	isms in s	ewage treatment	t	no inforr	natior	n available	
Soil (agricul	tural)			0.63 mg/	/kg (et	thanol)	
Air	-			-		n available	
				<u> </u>			
8.2	Exposur	re controls					
8.2.1.	Enginee	ering measures					
		nce/mixture relate exposure during			ve equ		ated rooms. Use personal eat, drink or smoke in the
	Structur exposur	ral measures to p re:	prevent	In accord	dance	with Section 7.	
	Organis exposu	ational measures re:	s to prevent	-		of work in order ng work process	to reduce other worker's s.
	Technic	al measures to p	revent exposure:	concentr	ation	•	tilation in order to keep ow permitted levels. Secure howering.



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Trading	name:	4%	FORMALDEHYDE,	ALCOHOLIC SOLUTI	ON
Product	code:	F4A-OT-X**	Revision date:	26 June 2019	Version: 3
8.2.2.1.	Eye ar	nd face protection:	levels of concentra	stick to face (EN 166) or tion in air; protective ga of higher levels of conce	s mask that covers the
8.2.2.2.	Skin p	rotection			
	Hand	protection:	Protective nitrile gl	oves, 0.11 mm thick (EN	374).
	Other	skin protection:		thing made of natural fil EN 340) and shoes that	
8.2.2.3.	Respir	atory protection:		136) or half mask (EN 14 orm" filter (EN 143) used	
8.2.2.4.	Therm	al hazards:	No information ava	ailable	
8.2.3.	Enviro	nmental exposure controls			
		ance/mixture related ires to prevent exposure:	See Section 6		
	Struct expos	ural measures to prevent ure:	Use modern equip	ment.	
	0	isational measures to nt exposure:	Adapt the work pro workplace.	ocess to the required wo	orking conditions of the
	Techn expos	ical measures to prevent ure:	See Section 6		

9.1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour:	sharp	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	21 °C	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available



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Trading name:		4% FORMALDEHYDE,	ALCOHOLIC SOLUTI	ON	
Product code:	F4A-OT-X**	Revision date:	26 June 2019	Version:	3

9.2	Other information		
	Oxidising properties:	No information available	No information available
	Explosive properties:	No information available	No information available
	Viscosity:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Partition coefficient: n- octanol/water (log Kow):	No information available	No information available
	Solubility(ies):	completely soluble in water	No information available
	Bulk density:	No information available	No information available
	Relative density:	No information available	No information available

SECTIO	CTION 10 STABILITY AND REACTIVITY				
10.1	Reactivity:	See subsections 10.3 through 10.5.			
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).			
10.3	Possibility of hazardous reactions:	Acids, nitrogen oxides, hydrogen peroxide, oxidizing agents, polymerization initiators, alkaline metals.			
10.4	Conditions to avoid:	Heat sources, low temperatures.			
10.5	Incompatible materials:	Various metals, alloys, plastic, magnesium, zinc alloys.			
10.6	Hazardous decomposition products:	No information available.			

SECTION 11 TOX		IFORMATION	I			
11.1 Informat	ion on toxicolog	ical effects				
Acute to:	xicity:					
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time		Results
Oral:	-	rat	LD ₅₀	No information available	-	g/kg (ethanol) kg (paraformaldehyde)
Dermal:	-	-	-	No information available	-	
Inhalation:	-	rat	LC ₅₀	4 h		ng/l (ethanol) 'kg (paraformaldehyde)
Specific t	target organ tox	icity – single e	xposure (STO	T SE):		
	Sp	ecific effects		Target orgar	า	Note



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Trading name:		4% FOF	RMALDEHYDE	, ALCOHOLIC		Page 9 of 16 N
Product code:	F4A-OT->		evision date:	26 June 2		Version: 3
		•				
Oral:	No inform	ation available	No inf	ormation availa	ble -	
Dermal:	No inform	ation available	No inf	ormation availa	ble -	-
Inhalation:	No inform	ation available	No inf	ormation availa	ble -	-
:						
Aspirati	on hazard:	1	No information	available.		
Irritatio	n and corrosior					1
	Exp	oosure time	Species	Evaluation	Method	Note
Skin corrosion/irritatio	on: -	-		-	-	-
Serious eye damage/irritation	n -	-		-	-	-
Sensitiz	ation					
Skin sensitizatior	n: N	1ay cause allergic s	kin reaction.			
Respiratory sens	itization: A	llergic persons ma	y display irritati	on.		
Sympto	ms related to t	he physical, chemi	cal and toxicolo	gical characteris	stics	
Oral exposure:	•	ing on concentrati damage, nausea, ve	•	e time, it may le	ead to stingi	ing and digestive
Dermal exposure	· · ·	ing on concentrati and pain may occ	•		•	ed by sensation of
Inhalation expos	ure: Depend and dys	-	on and exposur	re time, it may le	ead to mucc	osa irritation, cough,
Eye exposure:	Depend	ing on concentrati	on and exposur	e time, it may le	ead to stingi	ing, tearing, and pain.
	· · · · · · · · · · · · · · · · · · ·					
Repeate	ed dose toxicity	(subacute, subchr	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluati	on Note
Subacute oral	No informa available	tion No information available	No information available	No information available	No informa available	
Subacute dermal	No informa available	tion No information available	No information available	No information available	No informa available	
Subacute inhalation	No informa available	tion No information available	No information available	No information available	No informa available	



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Trading name:		4% FORMALDEHYDE,	ALCOHOLIC SOLUTI	ON	
Product code:	F4A-OT-X**	Revision date:	26 June 2019	Version:	3

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 effects	Target organ	Note	
Subacute oral	No information available	No information available	-	
Subacute dermal	No information available	No information available	-	
Subacute inhalation	No information available	No information available	-	
Subchronic oral	No information available	No information available	-	
Subchronic dermal	No information available	No information available	-	
Subchronic inhalation	No information available	No information available	-	
Chronic oral	No information available	No information available	-	
Chronic dermal	No information available	No information available	-	
Chronic inhalation	No information available	No information available	-	

CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)

nicity:	No information available
ity <i>in vitro</i> :	No information available
ty:	No information available
ity <i>in vivo</i> :	No information available
nutagenicity:	No information available
ve toxicity:	No information available
	nicity: ity <i>in vitro</i> : ity: ity <i>in vivo</i> : mutagenicity: ive toxicity:



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Trading name:		4% FOF	RMALDEHYDE,	ALCOHOLIC SOLUTI	ON	
Product code:	F4A-OT-X** Revisio		evision date:	26 June 2019	Version:	3
Summary properties	of evaluation of	of the C	MR No informa	tion available		

11.2	Practical experiences:						
	Remarks relevant for classification:	No information available					
	Other remarks:	No information available					
11.3	General notes:						
	-						

12.1 Toxicit	у							
Acute (short-te toxicity	rm)	Dose	Exposure time	Species	Method	E	valuation	Note
Fish		LC ₅₀	96 hours	fish	-	60 mg (paraf	ı/l ormaldehyde)	-
Crustacea:		EC ₅₀	48 hours	No information available	-	No inf availal	ormation ole	-
Algae/aquatic p	lgae/aquatic plants IC ₅₀		4 days	No information available	-	No information		-
Other organism	าร	-	-	-			-	
Chronic (long-t toxicity	erm)	Dose	Exposure time	Species	Method	E	Evaluation	
Fish		LC ₅₀	96 hours	No information available	-	No information available		-
Crustacea:		EC ₅₀	48 hours	No information available	-	No information available		-
Algae/aquatic p	olants	IC ₅₀	72 hours	No information available	-	_	No information - available	
Other organism	rganisms			-				
12.2 Persist	ence a	nd degradat	nility					
	c degra		, incy					
	-	Degradation half-lives		Method	Evaluatio	on	Note	9
Marine water	No ir	nformation a	vailable	No information available	No informatio available	on	-	
Fresh water	No ir	nformation a	vailable	No information available	No informatio	on	-	



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Trading name:			4%	FORM	ALDEHYDE,	ALCOHOLIC	SOLUTIO	Ν		
Product code:	F4A-	OT-X**		Revi	sion date:	26 June 2	019	Ve	rsion:	
Air	No inforn	nation ava	lable	No info availab	ormation ble	No informatio available	n -			
Soil	No inforn	nation avai	lable	No info availab	ormation ble	No informatio available	n -			
Biodeo	radation									
% Degradation		me (days)		N	lethod	Evaluatio	n		Note	
No information available	No inforn	No information available		No inf availat	ormation ble	No informatio available		lo infor vailable	mation	
	umulative p on coefficier		ol/wate	r (log Ko	ow):					
Value	Concentrat	tion	рН	°C	Method	Evalu	iation		Note	
		-		_	-	-		-		
Biocon	centration	factor (BCI	=)			1				
Value No information available	No availat		nation		Method ormation	rmation No informatio		Note -		
Chroni	c ecotoxicit	.V								
Value		Exp		osure ime	Species	Method	Evaluat	ion	Note	
	on fish	n fish LC ₅₀ No availa		mation able	No information available	No information available	No informat available		-	
Chronic toxicity		n EC ₅₀ No ia) EC ₅₀ inform availal			No	No	No			



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Trading		·		4% FORMA					Page 13 of 16	,
			4 A AT V**			-	une 2019		Version:	3
Produc	t code	2. F ²	4A-OT-X**	Revisi	on date	26 J	une 2019		version:	3
	No in	formatio	n available							
		ce tensio								
		alue	°C	Concentrati	on	Metho	od		Note	
	No inforn availa	nation ble	No information available	No informati available		o informatio vailable	n	-	inote	
	Adsor		desorption							
Transpo	ort		coefficient 's constant	log Kow	Evap	oration rate	Meth	od	Note	
Soil-wa	tor 👘	No available	information	No informatior available	n No ir availa	nformation able	No information available		ר -	
Water-a	air	No available	information			No inforn available	nation	-		
Soil-air		No available	information			No inforn available	nation	-		
12.5	Result	ts of PBT	and vPvB asses	sment						
	No in	formatio	n available							
12.6		adverse								
	No in	formatio	n available							
SECTIO	NI 12 D									
13.1			nent methods							
13.1	vvas									
13.1.1.	Pro	duct/Pac	kaging disposal	:						
				egal person auth	orized b	y the Ministr	v of Enviror	nmental	and Nature	
		tection.	·			·				
13.1.2.				tions according						
	Pac	kaging tł	nat contains res	idual hazardous	substan	ces or is cont	aminated w	vith haza	ardous substan	ces
13.1.3.	Was	ste treatr	nent – relevant	information:						
	No	informat	ion available							



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Trading name:		4% FORMALDEHYDE,	ALCOHOLIC SOLUTI	ON			
Product code:	F4A-OT-X**	Revision date:	26 June 2019	Version: 3			
13.1.4. Sewa	ge disposal – relevant ir	formation:					
Wast	e must not be disposed	of into the sewage system.					
	r disposal recommendat						
autho	prized by the ministry in	ct's remains into the sewage charge. Do not dispose of ors authorized by the minist	the packaging into the s				
· · · ·	ant Community provisio	-	<u>, , , , , , , , , , , , , , , , , , , </u>				
	,						
I							
SECTION 14 TR	ANSPORT INFORMAT	ION					
Transpo	orting/shipment by road	I (ADR)					
UN number:		1170					
UN proper shipp	oing name:	Ethanol solution					
Transport hazar	d class(es):	3					
Packing group:		П					
Environmentally	hazardous:	-					
Special precauti	ons for user:	-					
Transpo	orting/shipment by rail (RID)					
UN number:		1170 Ethanol solution 3					
UN proper shipp	ping name:						
Transport hazar	d class(es):						
Packing group:		II					
Environmentally	hazardous:	-					
Special precauti	ons for user:	-					
Inland	waterway transport (AD	N)					
UN number:		1170					
UN proper shipp	ping name:	Ethanol solution					
Transport hazar	d class(es):	3					
Packing group:		Π					
Environmentally	hazardous:	-					
Special precauti	ons for user:	-					
Transpo	orting/shipment by sea	(IMDG)					
UN number:		1170					
UN proper shipp	ping name:	Ethanol solution					
Transport hazar	d class(es):	3					
Packing group:		II					



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					5				
Trading name:	4	4% FORMALDEHYDE, ALCOHOLIC SOLUTION							
Product code:	F4A-OT-X**		Revision date:	26 June 2019	Version:	3			
				·					
Environmentally ha	zardous:	-							
Special precautions	for user:	-							
Transport in bulk a of MARPOL 73/78 a	ccording to Annex II and the IBC code:	-							
Transporti	ng/shipment by air (ICA	40-T	I/IATA-DGR)						
UN number:		1170							
UN proper shipping	j name:	Ethanol solution							
Transport hazard class(es):		3							
Packing group:		Ш							
Environmentally hazardous:		-							
Special precautions for user:									
Further information: -									

SECTI	ON 15 REGULATORY INFO	RMATION					
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:	-					
		EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;					
		The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);					
	Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;					
		EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;					
		EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;					
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives					
	Information according 19 guideline)	099/13/EC about limitation of emissions of volatile organic compounds (VOC-					



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Trading name:		ON				
Product code:	F4A-OT-X**	Revision date: 26 June 2019 Version:				
National	legislation:	Chemicals Act, Regulation of dangerous substances, Ordin and on biological limit value classification of waste with a Ordinance on writing Materi Substances Act	nance on occupational e s, Regulation on catego waste catalog and list o	exposure limit values pries, types and of hazardous waste,		

None

Chemical safety assessment

15.2

SECTIC	DN 16	Other information	
16.1	Indi	cation of changes:	-
			PBT Stable, bioaccumulative and toxic
	Abbreviations and acronyms:		vPvB Strongly stable and strongly bioaccumulative.
16.2			LD ₅₀ Lethal dose, 50%
			LC ₅₀ Lethal concentration, 50%
			TCOJ Specific target organ toxicity - single exposure
16.3.	Key literature references and source of data:		-
16.4.		sification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classifi	ication according to CLP		Classification procedure
-			-
16.5.	Relevant H statements (num		per and full text)
		H225	Highly flammable liquid and vapor.
		H302	Harmful if swallowed.
	H:	H315	Causes skin irritation.
		H317	May cause allergic skin reaction.
		H318	Causes serious eye damage.
		H332	Harmful if inhaled.
		H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
16.6.	5. Training advice: -		-
	Further information:		** "X" in the product code marks different volumes (different packagings of the product)
16.7.			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:		GOLD CHLORIDE, 0.2%			
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	GOLD CHLC	DRIDE, 0.2	% SOLUTION	
	Chemical name:	-			
	Catalogue number:	ZK02-OT-X*	**		
1.2	Relevant identified use	s of the subst	ance or m	nixture and uses advised against	
	Uses:		Compor	nent of many special staining kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ION 2. Hazards identification				
2.1	Classification of the substan	ce or mixture			
2.1.1	Classification according to F	Regulation (EC) No 12	272/2008 (CLP)		
	Hazard class and cat	egory code:	Hazard statements*:		
	Not identified as hazardous	substance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Haza	rd-statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	GOLD CHLORID	E, 0.2% SOLUTION		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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

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

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

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

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



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6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal information.			

SECTIO	SECTION 7. Handling and storage							
7.1	Precautions for safe handling							
7.1.1.	Protection measures							
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.					
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.					
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.					
	Other measures:		Protect against electrostatic charges.					
7.1.2.	Advice on general occupational hygiene:							
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.							
7.2 Conditions for safe storage, including any incompatibilities								
	Technical measures and storage conditions:	well ventil	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.					
	Packaging materials:	Manufactu	ırer's original packaging.					
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.					
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper					
	Further information on storage conditions:	and do no	ace the unused material in the storage room t use empty containers for storing other Do not store with incompatible materials on 10).					
7.3	Specific end use(s)							
	Recommendations:	-						
	Industrial sector specific solutions:	-						

SECTION 8. Exposure controls/personal protection

BIOGN	OST	®	Accordi	-	ETY DA Regulati	-)7/2006	Page 5 of 16	
Trading name:			G		CHLORII	DF 0 29		TON		
Product code:	ZK02-C)T-X**			f compila	_	01 July		Version:	3
8.1 Control pa	arameters									
Substance		СА	.S No		upational lues/short	term va	lues	Biolo	gical limit values	
				I	ppm	mg,	′m³			
-			-		-	-	-			
Substance name:	-									
EC No:	-	CAS No): –							
DNEL										
				Ind	lustrial					
Route of	Ac	ute	Αςι	ute	Chronic			Chronic		
exposure:	effect	local	effect sy	/stemic	effect local		effect systemic			
Oral	-		-		-			-		
Inhalation	-		-		-		-	-		
Dermal	-		-		-			-		
Critical physical pa	rameters:	solubility,	flammabil	ity, cor	rosivity:	-				
			T	Cor	nsumer					
Route of		cute	Αςι	ute		Chro			Chronic	
exposure:	effe	ct local	effect sy	ystemic	:	effect l	ocal		effect systemic	
Oral	-		-		-			-		
Inhalation	-		-		-		-			
Dermal	-		-		-			-		
PNEC										
Environmental pro	tection tar	get			PNEC					
Fresh water					no information available					
Freshwater sediments					no inforn					
Marine water					no inforn	nation a	vailable			
Marine sediments					no inforn	nation a	vailable			
Food chain					no inforn	nation a	vailable			
Microorganisms in	sewage tr	eatment			no inforn	nation a	vailable			
Soil (agricultural)					no information available					

no information available

8.2	Exposure controls

8.2.1. Appropriate engineering controls

Air



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

SECTIO	N 9. Physical and chemical properties
9.1	Information on basic physical and chemical properties



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	Value	Method
Physical state:	liquid	No information available
Colour:	light yellow	No information available
Odour:	No information available	No information available
Odor threshold:	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapour pressure:	No information available	No information available
Vapour density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	No information available	No information available
Partition coefficient: n- octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	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 (room temperature).			
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			



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11.1 Information	n on toxicological e	ffects					
Acute toxic	ity:						
Route of exposure:	Method	Species	Do	ose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure 1	time	Results
Oral:	No information available	-		information lable	-		-
Dermal:	No information available	-		information lable	-		-
Inhalation:	No information available	-		information lable	-		-
Specific tar	get organ toxicity -	- single expos	sure (S	TOT SE):			
	Specific	effects		Target	organ		Note
Oral:	No information av	vailable		No information	available	-	
Dermal:	No information av	vailable		No information	available	-	
Inhalation:	No information av	ailable		No information available -			
Irritation ar	nd corrosion						
	Exposure t	ime	Spec	ies Evaluat	ion Method	b	Note
Skin corrosion/irritation:	Exposure t	ime -	Spec	ies Evaluat -	ion Method	- k	Note
Skin	•		Spec				Note
Skin corrosion/irritation: Serious eye	-	-	Spec	-	-	-	Note
Skin corrosion/irritation: Serious eye damage/irritation	- -	-	•	-	-	-	Note
Skin corrosion/irritation: Serious eye damage/irritation Sensitizatio	- - n No infor	-	ble.	-	-	-	Note
Skin corrosion/irritation: Serious eye damage/irritation Sensitization Skin sensitization:	- - n No infor	- - mation availa	ble.	-	-	-	Note
Skin corrosion/irritation: Serious eye damage/irritation Sensitization Skin sensitization: Respiratory sensitiza	- - n No infor	- - mation availa mation availa	ble.	-	-	-	Note
Skin corrosion/irritation: Serious eye damage/irritation Sensitization Skin sensitization: Respiratory sensitiza	- - No infor ation: No infor	- nation availa mation availa ical, chemica	ble.	-	-	-	Note
Skin corrosion/irritation: Serious eye damage/irritation Sensitization Skin sensitization: Respiratory sensitizat Symptoms	- No infor ation: No infor related to the phys Harmful if swal	- mation availa mation availa ical, chemica lowed.	ble. ble. I and t	-	- - acteristics	-	Note
Skin corrosion/irritation: Serious eye damage/irritation Sensitization Skin sensitization: Respiratory sensitizat Symptoms Oral exposure:	- No information: No information: No information: Harmful if swal Harmful if absor	- mation availa mation availa ical, chemica lowed. rbed through	ble. ble. I and t	- - oxicological char	acteristics	-	Note



ZK02-OT-X**

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

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Trad	ing	name:	
Prod	uct	code:	

GOLD CHLORIDE, 0.2% SOLUTION

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Repeate	d dose toxicity (sub	acute, subchro	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluatior	n Note	
Subacute oral	No information available	No information available	No information available	No information available	No informatio available	on -	
Subacute dermal	No information available	No information available	No information available	No information available	No informatio available	on -	
Subacute inhalation	No information available	No information available	No information available	No information available	No informatio available	on -	
Subchronic oral	No information available	No information available	No information available	No information available	No informatio available	on -	
Subchronic dermal	No information available	No information available	No information available	No information available	No informatio available	on -	
Subchronic inhalation	No information available	No information available	No information available	No information available	No informatio available	on -	
Chronic oral	No information available	No information available	No information available	No information available	No informatio available	on -	
Chronic dermal	No information available	No information available	No information available	No information available	No informatio available	on -	
Chronic inhalation	No information available	No information available	No information available	No information available	No informatio available	on -	
1							
Specific	target organ toxicit		•				
		Specific effects		Target organ		Note	
Subacute oral		ation available		No information available		-	
Subacute dermal		ation available		No information available		-	
Subacute inhalati		ation available		No information available		-	
Subchronic oral		ation available		No information available No information available		-	
Subchronic derm		tion available				-	
Subchronic inhal		ation available				-	
Chronic dermal		ation available ation available		No information available-No information available-		_	



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Chroni	ic inhalation	No information available	No information available -					
	CMP offocts	(carcinogenicity; mutagenicity	roproductivo tovicitu)					
	Carcinogenic		Based on available data, the classification criteria are not met.					
		-						
	Mutagenicity <i>in vitro</i> : Genotoxicity: Mutagenicity <i>in vivo</i> :		Based on available data, the classification criteria are not met.					
			Based on available data, the classification criteria are not met.					
			Based on available data, the classification criteria are not met.					
	Germ cell mu		Based on available data, the classification criteria are not met.					
	Reproductive	e toxicity:	Based on available data, the classification criteria are not met.					
	Summary o properties:	of evaluation of the CM	R Based on available data, the classification criteria are not met.					
11.2	Practical expe	eriences:						
	Classification	observations:	No information available					
	Other observ	ations:	No information available					
11.3	General note	s:						
	-							

SECTION 12. Ecological information							
12.1 Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-	
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-	
Algae/aquatic plants	IC ₅₀	4 days	No information available	No information available	No information available	-	
Other organisms	-	-	-	-	-	-	
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-	



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				•			

Crustacea:		EC ₅₀	48 hours		lo information vailable	No information available	No inform availat		-
Algae/aquatic p	lants	IC ₅₀	72 hours		lo information vailable	No information available	No inform availat		-
Other organism	S	-	-	-				_	
12.2 Persist	ence a	nd degradat	oility						
Abiotio	: degra	dation							
	De	gradation h	alf-lives		Method	Evaluatio	n		Note
Marine water	No ir	nformation a	vailable		nformation lable	No informatio available	n	-	
Fresh water	vater No information available			nformation lable	No information available		-		
Air	No information ava		vailable	No information available		No information available		-	
Soil	No information av		vailable	No information available		No information available		-	
1									
Biodeg	Iradatio	on							
% Degradatio	on	Time (o	lays)		Method	Evaluatio	n		Note
No information available		No in available	formation	No information available		No information available		No information available	
12.3 Bioacc	umulat	ive potentia	I						
Octano	ol-wate	r partition c	oefficient (og Ko	ow)				
Octant		1			Mathad	Evalu	ation		Note
Value	Conce	ntration	рН	°C	Method	Evalu	ation		Note
1	Conce	ntration	рН 		-	-	ation	-	Note
Value	Conce	ntration	•					-	
Value	Conce	ntration	•					-	
Value -								-	
Value -		ntration tion factor (I Specie						-	Note



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	Value		Dose	Exposure time	Spe	cies	Meth	nod	Eval	uation	Note
Chroni	c toxicity c	on fish	LC ₅₀	information	No inform availal		No informa availab		No inforr availa	nation ble	-
	c toxicity c cea (<i>Daphr</i>		EC ₅₀	information	No inform availal		No informa availab		No inforr availa	nation ble	-
12.4	Mobility	in soil									
	Known o	or predi	icted distributi	on in environme	ental co	omparti	ments:				
			available			-					
	Surface	tension	:								
	Valu	e	°C	Concentrat	ion		Metho	d			Note
	No informa available	tion	No information available	No informati available	on	No info availab	ormation ole	ו	-		
	Adsorpt	ion / de	esorption								
Transp	ort		oefficient s constant	log Kow	Eva	aporatio	on rate	N	lethoo		Note
Soil-wa	ater No ava	ilable	information	No information available		inform ailable	ation	No in availa	format ble	ion	-
Water-	air No	ilable	information	No information available		inform ailable	ation	No information available			-
Soil-air	. No ava	ilable	information	No information available		inform ailable	ation	No in availa	format ble	ion	-
12.5	Results	of PBT a	and vPvB asses	sment							
	Not app	licable.									
12.6	Other ad	dverse e	effects								
	No furth	er relev	vant informatio	on available.							



Trading name:			Page 13 of 16 GOLD CHLORIDE, 0.2% SOLUTION						
Product		ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3			
			p						
SECTIO	N 13. Dispo	sal considerations							
13.1	Waste tre	eatment methods							
1211									
13.1.1.		Packaging disposal:	al person authorized by the Min	ictry of Environment	al and Natura				
	Protectio		al person autionzed by the Min						
13.1.2.	Waste co	des/waste designatio	ons according to Law:						
		5	ual hazardous substances or is co	ontaminated with ha	azardous substan	ices			
	. –	-							
13.1.3.	Waste tre	eatment – relevant in	formation:						
	No inforr	No information available							
13.1.4.		Sewage disposal – relevant information:							
	Waste m	ust not be disposed o	of into the sewage system.						
101 5	Othernelis								
13.1.5.		her disposal recommendations:							
	authorize	o not dispose of the product's remains into the sewage system. Submit the remains to the collectors uthorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit he packaging to the collectors authorized by the ministry in charge.							
13.1.6.		Relevant Community provisions:							
	Disposal	must be made accord	ding to official regulations.						
SECTIO	N 14 TRAN	SPORT INFORMATI	N						
	-	ng/shipment by road	(ADR)						
UN num			Not subject to transport regu	lations					
UN proper shipping name:			-						
	Transport hazard class(es):		-						
Transpo									
Transpo Packing			-						
Transpo Packing Environr	mentally haz		-						
Transpo Packing Environr	mentally haz	for user:	-						
Transpo Packing Environr Special p	mentally haz precautions Transportir		- - RID)						
Transpo Packing Environr Special p UN num	nentally haz precautions Transportir ber:	for user: ng/shipment by rail (F	-	lations					
Transpo Packing Environr Special p UN num UN prop	nentally haz precautions Transportir ber: per shipping	for user: ng/shipment by rail (F name:	- - RID)	lations					
Transpo Packing Environr Special p UN num UN prop	nentally haz precautions Transportir iber: per shipping rt hazard cla	for user: ng/shipment by rail (F name:	- - RID) Not subject to transport regu	lations					



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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 (IN	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:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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



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Trading name:		GOLD CHLORIDE, 0.2	% SOLUTION		
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National legislation:	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,
 Information according 19 guideline)	099/13/EC about limitation of emissions of volatile organic compounds (VOC- Chemicals Act, Regulation on classification, packaging and labeling of
	Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;
	EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;
Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;
	Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);
	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;

SECTIC	SECTION 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%		
		тсој	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure us 1272/2008 (CLP)	ed to derive the	classification for mixture according to Regulation (EC)		
Classifi	cation C	lassification prod	cedure		
-	-				
16.5.	Relevant H statements (numbe	r and full text)			
	H:				
16.6.	Training advice: -				



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

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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION				
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3
Troduct code:		Duce of complication.	01 July 2013	Version.	

		** "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:	SODIUM THIOSULFATE, 5% SOLUTION					
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3	

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SODIUM TH	IOSULFA	TE, 5% SOLUTION	
	Chemical name:	-			
	Catalogue number:	NT5-OT-X* [*]	*		
1.2	Relevant identified use	s of the subst	tance or n	nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advis	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.	
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnos	t Ltd.	
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	N 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to F	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and cat	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 Haza	ird-statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	SODIUM THIOS	ULFATE, 5% SOLUTION			
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	-				



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Trading name:		SODIUM THIOSULFATE,	5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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)		
7772-98-7/ 231-867-5/ -	-	< 5 %	sodium thiosulphate	not classified		

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



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Trading name:		SODIUM THIOSULFATE,	5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

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

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

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



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

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

SECTIO	DN 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.				
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Th	noroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	tightly closed and upright set containers in a tilated storage rooms at temperatures ranging to 25 °C. Protect from heat and direct sunlight.				
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	ay from food and drink. Keep the containers losed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drai that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	and do no	ace the unused material in the storage room at use empty containers for storing other . Do not store with incompatible materials on 10).			



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Trading name:		SODIUM THIOSULFATE,	5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

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

SECTION 8. Exposure controls/personal protectio				tion	1					
8.1 Contro	ol para	ameters								
Substa	nce		CA	S No			exposure limit term values	Biological limit values		
					۲ ۲	opm	mg/m ³			
-				-		-	_	-		
Cultation on more										
Substance nam	e:	-		_						
EC No:		-	CAS No	: -						
DNEL										
		<u> </u>				ustrial				
		Acu		Acut			Chronic	Chronic		
		effect sys	stemic		effect local	effect systemic				
Oral - Inhalation -			-		-		-			
Dermal -			-		-		-			
							-			
Critical physical parameters: solubility, flammability, co			-	-	-					
				1.		nsumer				
Route of			cute tt local	Acut		Chronic ic effect local		Chronic		
exposure:		enec	l IOCAI	effect sys	stemic	-		effect systemic		
Oral Inhalation		-		-		-		-		
Dermal		-		-				-		
PNEC										
Environmental	prote	ction tar	net			PNEC				
Fresh water	p. 0 te		300			no information available				
Freshwater sedi	iment	S				no information available				
Marine water						no information available				
Marine sedimer	nts						nation available			
Food chain						no information available				
Microorganism	s in se	ewage tre	eatment			no information available				
Soil (agricultura						no inform	nation available			
Air						no inform	nation available			



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



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Product code:NT5-OT-X**Date of compilation:05 July 2019Version:	3

Technical measures to prevent See Section 6 exposure:

	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour:	No information available	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
	Partition coefficient: n- octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
).2	Other information		

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



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Trading name:		SODIUM THIOSULFATE,	5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No information available
10.4	Conditions to avoid:	No information available
10.5	Incompatible materials:	No information available
10.6	Hazardous decomposition products:	No information available

	mation on to	al informati								
	e toxicity:									
Route of exposure:		/lethod	Species	Do	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure time		Results	
Oral:	No in availa	formation able	_		information lable		-		_	
Dermal:	No in availa	formation able	_		information lable		-		-	
Inhalation:	No in availa	formation able	-		No information available		-		-	
÷										
Spec	ific target or	gan toxicity -	- single exp	osure (S	TOT SE):					
		Specific	effects	Target c		organ	organ		Note	
Oral: No information available		/ailable	No information		availab	ole	-			
Dermal: No inform		formation av	n available		No information available			-		
Inhalation: No information availab		vailable	No information available -							
Aspi	ration hazard	:		No information available.						
Irrita	tion and corr	rosion								
		Exposure t	ime	Species Evaluat		ion	Method		Note	
Skin corrosion/irritation:		-	-	-		-	-			
Serious eye damage/irritation		-	-	-		-	-			
Sens	itization									
Skin sensitiza	tion:	No infor	mation ava	ilable.						
			mation ava							



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Trading name:		SODIUM THIOSULFATE,	5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

Sympto	ms rela	ted to the ph	ysical, chemic	al and toxicolog	ical characterist	ics	
Oral exposure:		Swallowing n	nay cause disc	omfort in abdo	men and abdom	inal pains.	
Dermal exposure	:	Allergic perso	ons may displa	y irritation.			
Inhalation exposi	ure:	Allergic perso	ons may displa	y irritation afte	r prolonged or re	epeated exposu	ſe.
Eye exposure:		May cause ey	e irritation.				
Repeate	ed dose	toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information Ible	No information available	No information available	No information available	No information available	-
Subacute dermal	al available cute No information		No information available	No information available	No information available	No information available	-
Subacute No informat inhalation available			No information available	No information available	No information available	No information available	-
Subchronic oral	ochronic oral No information available		No information available	No information available	No information available	No information available	-
Subchronic dermal	No availa	information Ible	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No availa	information Ible	No information available	No information available	No information available	No information available	-
Chronic oral	No availa	information Ible	No information available	No information available	No information available	No information available	-
Chronic dermal	No availa	information Ible	No information available	No information available	No information available	No information available	-
Chronic No inform inhalation available			No information available	No information available	No information available	No information available	-
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):	1	
			Specific effec	ts	Target organNote		
Subacute oral		No informa	tion available		No information	No information available -	



Tradir	ng name:		SODIUN	/I THIOSULFAT	E, 5% SOLUTION				
Produ	ict code:	NT5-OT-X**	Date	of compilation:	05 July 2019	Version:	3		
Subac	ute inhalatio	No information	available	No	information available	-			
Subch	ronic oral	No information	available	No	information available	-			
Subch	ronic dermal	No information	available	No information available		-			
Subch	ronic inhalati	on No information	available	No	information available	-			
Chron	ic oral	No information	available	No	information available	-			
Chron	ic dermal	No information	available	No	information available	-			
Chron	ic inhalation	No information	available	No	information available	-			
	Mutagenicity in vitro: Genotoxicity: Mutagenicity in vivo: Germ cell mutagenicity: Reproductive toxicity: Summary of evaluation of the Content of the		Bas Bas Bas Bas	Based on available data, the classification criteria are not meBased on available data, the classification criteria are not meBased on available data, the classification criteria are not meBased on available data, the classification criteria are not meBased on available data, the classification criteria are not meBased on available data, the classification criteria are not meBased on available data, the classification criteria are not meCMRBased on available data, the classification criteria are					
11.0	properties			met.					
11.2		xperiences:		No information	available				
	Classification observations: Other observations:			No information available No information available					
	Other obs				available				
11.3	General no	otes:		•					
	_								

SECTION 12. Ecologie	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	-				



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

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Trading name:	S	ODIUM THIOSULFATE,	5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

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

12.2	Persist	Persistence and degradability									
	Abiotic	degradation									
		Degradation half-liv	ves Method	Evaluation	Note						
Marine	water	No information availa	ble No informatio available	n No information available	-						
Fresh water		No information availa	ble No informatio available	n No information available	-						
Air	No information available		ble No informatio available	n No information available	-						
Soil	Soil No information		ble No informatio available	n No information available	-						
	Biodeg	radation	1	1	1						
% De	egradatio	on Time (days)	Method	Evaluation	Note						
No information available		No inform available	ation No informatio available	n No information available	No information available						

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



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											P	age 12 of 16)
Trading	j name:				SODIUN	І ТНІ	OSULF	ATE, 59	% SOL	UTIO	N		
Produc	t code:	NT5-	OT-X**		Date o	of coi	mpilatio	on:	05 July	2019		Version:	3
	Bioconce	ntration	factor (BCF)					1					
Va	alue		Species			ethod		E١	valuatio	n		Note	
	No information No available available		inform ble	nation No informa available			n	No info availab	ormatio le	n	-		
	Chronic e	ecotoxici	ity										
	Value Dose		Dose	-	osure me	Spe	ecies	Meth	nod	Eval	uation	Note	!
Chronic toxicity on fish		LC ₅₀		information in		nation Ible	No inform availab		No inforr availa	nation ble	-		
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No inforr availa	nation	No inforr availa	nation Ible	information			o formation - ailable			
12.4	Mobility Known o		ted distributi	on in e	nvironme	ntal c	ompart	ments:					
	No infor	•		on in e	invironine		ompart	inents.					
	Surface t		Ivaliable										
	Value	1	°C		oncentrati	on		Metho	d			Note	
	No informati available	N ion in	_	No	informatio		No inf availat	ormatio					
	Adsorpti												
Transpo	rt	A/D coe Henry's d	efficient constant	lo	g Kow	Εv	aporatio	on rate	N	/lethoo	k	Note	
Soil-wat	er No	i ilable	nformation	No in availa	formatior ble		No information available		tion No information available		tion	-	
Water-a	ir No avai	i ilable	nformation	No in availa	formatior ble		o inform ailable	ation	No in availa	format ble	tion	-	



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Trading	g name:		SODIUM	THIOSULFATE,	5% SOLUTION		
Produc	t code:	NT5-OT-X**	Date of	compilation:	05 July 2019	Version:	3
			·				
Soil-air	No availa	information able	No information available	No information available	No information available	-	
	1						
12.5	Results of	PBT and vPvB asses	ssment				
	Not applic	able.					
12.6		erse effects					
	No furthe	r relevant information	on available.				
SECTIO	N 12 Diam	osal consideration	•				
13.1		reatment methods	S				
10.1	waste ti						
13.1.1.	Product	/Packaging disposa	l:				
	Submit f	for disposal to the l	egal person autho	rized by the Minis	try of Environmental	and Nature	
	Protectio	on.		-	-		
13.1.2.		odes/waste designa	-				
	15 01 10 substand		ontains residual h	azardous substanc	es or is contaminate	ed with hazardo	ous
13.1.3.	Waste tr	eatment – relevant	information:				
10.1.0.		mation available					
13.1.4.	Sewage	disposal – relevant	information:				
	Waste m	nust not be dispose	d of into the sewa	ge system.			
13.1.5.	Other di	sposal recommend	ations:				
	authoriz	• •	n charge. Do not	dispose of the pac	n. Submit the remair kaging into the sewa arge.		
13.1.6.	Relevant	t Community provis	ions:				
	Disposa	l must be made acc	ording to official r	egulations.			
SECTIO	N 14 TRAN	ISPORT INFORMA	TION				
		ng/shipment by roa					
UN num			Not subject t	o transport regula	tions		
UN prop	per shipping	g name:	-				



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					rage ± r er ±e	
Trading name:		S	ODIUM THIOSULFATE,	5% SOLUTION		
Product code:	NT5-OT-X**		Date of compilation:	05 July 2019	Version:	3
					- i	
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally has	zardous:	-				
Special precautions	; for user:	-				
Transporti	ing/shipment by rail (RI	ID)				
UN number:		No	t subject to transport regula	ations		
UN proper shipping	g name:	-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally has	zardous:	-				
Special precautions	; for user:	-				
Inland wat	terway transport (ADN))				
UN number:		No ¹	t subject to transport regula	ations		
UN proper shipping	g name:	-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally ha	zardous:	-				
Special precautions	; for user:	-				
Transporti	ing/shipment by sea (IN	/DG))			
UN number:		No	t subject to transport regula	ations		
UN proper shipping	្វ name:	-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally has	zardous:	-				
Special precautions	; for user:	-				
Transport in bulk a of MARPOL 73/78 a	according to Annex II and the IBC code:	-				
Transporti	ing/shipment by air (ICA	AO-T	I/IATA-DGR)			
UN number:		No ¹	t subject to transport regula	ations		
UN proper shipping	g name:	-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally has	zardous:	-				
Special precautions	; for user:	-				
Further information						



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION								
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3				

15.1	ON 15. Regulatory information Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	 EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	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	

SECTIC	SECTION 16. Other information			
16.1	Indication of changes:	-		
	Abbreviations and acronyms:	PBT	Stable, bioaccumulative and toxic	
		vPvB	Strongly stable and strongly bioaccumulative.	
16.2		LD ₅₀	Lethal dose, 50%	
		LC ₅₀	Lethal concentration, 50%	
		тсој	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:	-		



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Trading name:		5% SOLUTION			
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

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

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:	NUCL	EAR FAST RED (KERNEC	CHTROT) REAGEN	Г	
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	NUCLEAR F	AST RED (KERNECHTROT) REAGENT	
	Chemical name:	-			
	Catalogue number:	KR-OT-X**			
1.2	Relevant identified use	s of the subst	tance or m	nixture and uses advised against	
	Uses:		Counter	stain in many special staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent pe	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection and	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 2. Hazards identification				
2.1	Classification of the substan	ce or mixture			
2.1.1	Classification according to R	egulation (EC) No 12	272/2008 (CLP)		
	Hazard class and cat	egory code:	Hazard statements*:		
	Not identified as hazardous	substance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Haza	rd-statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	NUCLEAR FAST	RED (KERNECHTROT) REAGENT		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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Trading name:		NUCLEAR FAST RED (KERNECHTROT) REAGENT			
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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)			
6409-77-4/ 229-088-0/ -	-	≤ 1%	Disodium 1-amino-2,4-dihydroxy- 9,10-dihydro-9,10-dioxoanthracene- 3-sulphonate	Skin Irr. 2; H315 Eye Irr. 2; H319 STOT SE; H335			

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



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Trading name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT									
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3					
		According to our findings								

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

SECTIO	TON 5. Firefighting measures			
5.1	Extinguishing media			
	Suitable extinguishing media: water spra	y, dry powder, CO_2 or alcohol resistant foam		
	Unsuitable extinguishing media: Water with	ı full jet		
5.2	Special hazards arising from the substance or mixture			
	Hazardous combustion products: no informa	ition available		
5.3	Advice for firefighters			
	Use a self-contained open-circuit compressed	air breathing apparatus and fireproof clothing.		
5.4	Additional information			
	Cool endangered receptacles with water spray contaminate the environment with extinguishi	. Collect contaminated fire fighting water separately. Do not ng media.		

SECTIC	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 and contact with skin and eyes. Do not smoke. Keep away from ign sources.				
	Emergency procedures: Mark the area using proper signs.				
6.1.2.	For emergency responders:				
	Use protective equipment; in c (see Section 8).	ase of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			



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Trading name:	NUCL	NUCLEAR FAST RED (KERNECHTROT) REAGENT						
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3			

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

SECTIO	DN 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2	Conditions for safe storage, including any incon	npatibilities			
	Technical measures and storage conditions:	well ventil	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	urer's original packaging.			
	Requirements for storage rooms and vessels:	y from food and drink. Keep the containers sed.			
	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:	and do no	ace the unused material in the storage room t use empty containers for storing other Do not store with incompatible materials on 10).		



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Trading name:		NUCLEAR FAST RED (KERNE	CHTROT) REAGE	NT	
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

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

SECTIO	ON 8. Expos	ure contre	ols/perso	onal protec	tion			
8.1	Control pa	arameters						
	Substance	I	CA	S No			exposure limit term values	Biological limit values
				р	pm	mg/m ³		
-				-		-	-	-
Substa	nce name:	_						
EC No:		-	CAS No): –				
DNEL		1						
					Ind	ustrial		
Route exposi		Acı effect		Acut effect sys			Chronic effect local	Chronic effect systemic
Oral		-		-		-		-
Inhalat	ion	-		-		_		-
Derma	I	-		-		-		-
Critical	l physical pai	rameters: s	olubility,	flammabilit	ty, corr	osivity:	-	
					Con	sumer		
Route expos			cute ct local	Acu effect sys			Chronic effect local	Chronic effect systemic
Oral		-		-		-		-
Inhalat	ion	-		-		-		-
Derma	l	-		-		-		-
PNEC								
Enviro	nmental prot	ection tar	get			PNEC		
Fresh v	water				I	no information available		
Freshw	ater sedime	nts				no information available		
Marine water				no information available				
Marine	e sediments					no information available		
Food c	hain					no information available		
Microc	organisms in	sewage tr	eatment			no information available		
Soil (ag	gricultural)				I	no inform	nation available	
Air						no inform	nation available	



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Trading name:		NUCLEAR FAST RED (KERNECHTROT) REAGENT						
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3			

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



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Trading name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT						
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3		

Technical measures to prevent See Section 6 exposure:

9.1	Information on basic physical and chemical properties							
		Value	Method					
	Physical state:	liquid	No information available					
	Colour:	red	No information available					
	Odour:	No information available	No information available					
	Odor threshold:	No information available	No information available					
	pH:	No information available	No information available					
	Melting point / freezing point;	No information available	No information available					
	Initial boiling point and boiling range:	No information available	No information available					
	Flash point:	No information available	No information available					
	Evaporation rate:	No information available	No information available					
	Flammability (solid, gas):	No information available	No information available					
	Upper/lower flammability or explosive limits:	No information available	No information available					
	Vapour pressure:	No information available	No information available					
	Vapour density:	No information available	No information available					
	Relative density:	No information available	No information available					
	Bulk density:	No information available	No information available					
	Solubility(ies):	No information available	No information available					
	Partition coefficient: n- octanol/water (log Kow):	No information available	No information available					
	Auto-ignition temperature:	No information available	No information available					
	Decomposition temperature:	No information available	No information available					
	Viscosity:	No information available	No information available					
	Explosive properties:	No information available	No information available					
	Oxidising properties:	No information available	No information available					

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



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Trading name:		NUCLEAR FAST RED (KERNE	CHTROT) REAGE	NT	
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No information available
10.4	Conditions to avoid:	No information available
10.5	Incompatible materials:	No information available
10.6	Hazardous decomposition products:	No information available

	mation on to	al informati							
	e toxicity:								
Route of exposure:		/lethod	Species	Do	se LD ₅₀ /LC ₅₀ or ATE _{mix}	Ex	posure ti	me	Results
Oral:	No in availa	formation able	-		information lable		-		_
Dermal:	No in availa	formation able	-		information lable		-		-
Inhalation:	No in availa	formation able	-		information lable		-		-
÷									
Spec	ific target or	gan toxicity -	- single exp	osure (S	TOT SE):				
		Specific	effects		Target	organ			Note
Oral:	No in	formation av	/ailable	No information available		ole	-		
Dermal:	No in	formation av	vailable	No information available		le	-		
Inhalation:	No in	formation av	rmation available		No information available			-	
Aspi	ration hazard	:		No inforr	nation available.				
Irrita	tion and corr	rosion							
		Exposure t	ime	Spec	es Evaluati	ion	Method		Note
Skin corrosion/irri ⁻	tation:		-	-	-		-	-	
Serious eye damage/irritation		-	-	-		-	-		
Sens	itization								
Skin sensitiza	tion:	No infor	mation ava	ilable.					
	ensitization:		mation ava						



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Trading name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT					
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3	
:						

Symptoms re	Symptoms related to the physical, chemical and toxicological characteristics					
Oral exposure:	Harmful if swallowed.					
Dermal exposure:	Harmful if absorbed through skin. May cause skin irritation.					
Inhalation exposure:	Harmful if inhaled. May cause respiratory tract irritation.					
Eye exposure:	May cause eye irritation.					

Repeated dose toxicity (subacute subchronic chronic)

	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No informatio available	n -
Subacute dermal	No information available	No information available	No information available	No information available	No informatio available	n -
Subacute inhalation	No information available	No information available	No information available	No information available	No informatio available	n -
Subchronic oral	No information available	No information available	No information available	No information available	No informatio available	n -
Subchronic dermal	No information available	No information available	No information available	No information available	No informatio available	n -
Subchronic inhalation	No information available	No information available	No information available	No information available	No informatio available	n -
Chronic oral	No information available	No information available	No information available	No information available	No informatio available	n -
Chronic dermal	No information available	No information available	No information available	No information available	No informatio available	n -
Chronic inhalation	No information available	No information available	No information available	No information available	No informatio available	n -
Specific	target organ toxicit	v – repeated e	xposure (STOT	RE):		
		Specific effect	•	Target o	rgan	Note
Subacute oral	No informa	tion available		No information	-	-
Subacute dermal	No informa	tion available		No informatior	a available	-



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

Page 10 of 16 Trading name: NUCLEAR FAST RED (KERNECHTROT) REAGENT 3 Product code: KR-OT-X** Date of compilation: 03 July 2019 Version: Subacute inhalation No information available No information available _ Subchronic oral No information available No information available _ Subchronic dermal No information available No information available -Subchronic inhalation No information available No information available -Chronic oral No information available No information available _ Chronic dermal No information available No information available _ Chronic inhalation No information available No information available _ CMR effects (carcinogenicity; mutagenicity; reproductive toxicity) Carcinogenicity: Based on available data, the classification criteria are not met. Mutagenicity in vitro: Based on available data, the classification criteria are not met. Genotoxicity: Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Mutagenicity in vivo: Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met. Summary of evaluation of the CMR Based on available data, the classification criteria are not properties: met. 11.2 Practical experiences: Classification observations: No information available Other observations: No information available 11.3 General notes: _

SECTION 12. Ecological information							
12.1 Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-	
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-	



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Trading name:		NUCLEAR FAST RED (KERNE	CHTROT) REAGE	NT	
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

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

12.2	Persist	ence a	and degradability			
	Abioti	c degr	adation			
		D	egradation half-lives	Method	Evaluation	Note
Marine	water	No i	nformation available	No information available	No information available	-
Fresh w	ater	No i	nformation available	No information available	No information available	-
Air		No i	nformation available	No information available	No information available	-
Soil		No i	nformation available	No information available	No information available	-
	Biodeg	gradat	ion	4	1	1
% De	egradatio	on	Time (days)	Method	Evaluation	Note
No info availabl	ormation le		No information available	No information available	No information available	No information available

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



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Trading	g name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT							0				
Produc	t code:	KR-0	OT-X**		Date of compilation: 03 July 2019					۱	/ersion:	3	
	Bioconce	ntratior	n factor (BCF)										
V	alue		Species		М	ethoc	ł	E۱	aluatio	n		Note	
No info availabl	rmation e	No availa	inform able	ation			No information available		-				
	Chronic e	cotoxic	city										
	Value		Dose		oosure ime	Spe	ecies	Meth	nod	Evalua	ation	Note	
Chronic	toxicity or	n fish	LC ₅₀	No infor availa	mation	No inforr availa	mation able	No informa availab	1	No informa availabl		-	
	toxicity or ea (<i>Daphni</i>		EC ₅₀	No infor availa	mation	No inforr availa	mation able	No informa availab		No informa availabl		-	
12.4	Mobility	n soil											
			ted distributi	on in e	environme	ental c	compart	ments:					
	No inforr	nation a	available										
	Surface te	ension:											
	Value		°C	С	oncentrat	ion	-	Metho	d			Note	
	No informati available	on ir	lo nformation vailable		informati ailable	ion	No inf availat	ormation ble	٦	-			
	Adsorptio	on / des	sorption						1		1		
Transpo	ort		efficient constant	lo	og Kow	E١	vaporatio	on rate	٢	Method		Note	
Soil-wa	ter No avai	lable	information	No ir availa	nformatio able		o inform ailable	ation	No in availa	formatic able	on .	-	
Water-a	air No avai	lable	information	No ir availa	nformatio able		o inform ailable	nation	No in availa	formatic able	on .	-	



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Trading	name:		NUCLEAR FAS	T RED (KERNE	CHTROT) REAGEN	Τ
Product	code:	KR-OT-X**	Date of	compilation:	03 July 2019	Version:
Soil-air	No availa	information able	No information available	No information available	No information available	-
12.5	Results of	PBT and vPvB asse	ssment			
	Not applic					
12.6		erse effects				
	No furthe	r relevant informati	on available.			
SECTIO	N 13. Disp	osal consideratior	15			
13.1		reatment methods				
13.1.1.	Product	/Packaging disposa	al:			
	Submit Protection	•	legal person autho	rized by the Mini	stry of Environmental	and Nature
13.1.2.	Waste c	odes/waste design	ations according to	o Law:		
	15 01 10 substan		contains residual h	azardous substan	ces or is contaminate	d with hazardous
13.1.3.	Waste tr	reatment – relevant	t information:			
	No infor	rmation available				
13.1.4.	Sewage	disposal – relevant	information:			
	Waste m	nust not be dispose	ed of into the sewa	ge system.		
13.1.5.		isposal recommend				
	authoriz	• •	in charge. Do not	dispose of the pa	m. Submit the remair ckaging into the sewa narge.	
13.1.6.	Relevant	t Community provi	sions:			
	Disposa	l must be made acc	cording to official r	egulations.		
SECTIO		ISPORT INFORMA				
		ing/shipment by ro				
UN num	-			o transport regul	ations	
	er shippin	a name:	-			



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Trading name: N		UCLEAR FAST RED (KERNECHTROT) REAGENT						
Product code: KR-OT-X**			Date of compilation:	03 July 2019	Version:	3		
	1		1		:			
Transport hazard class(es):								
Packing group:								
Environmentally has	zardous:	-						
Special precautions for user:								
Transporti	ng/shipment by rail (R	[D)						
UN number:		No	t subject to transport regul	ations				
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Inland wat	erway transport (ADN)							
UN number:		No	t subject to transport regul	ations				
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally has	zardous:	-						
Special precautions	for user:	-						
Transporti	ng/shipment by sea (IN	MDG)						
UN number:		No	t subject to transport regul	ations				
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally has	zardous:	-						
Special precautions	for user:	-						
Transport in bulk a of MARPOL 73/78 a	according to Annex II and the IBC code:	-						
Transporti	ng/shipment by air (IC	AO-T	T/IATA-DGR)					
UN number:			t subject to transport regul	ations				
UN proper shipping name:								
Transport hazard class(es):								
Packing group:								
Environmentally hazardous:								
Special precautions for user:								
Further information	: -							



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Trading name:	NUC	LEAR FAST RED (KERN	ECHTROT) REAGE	NT	
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

SECTI	ON 15. Regulatory informa	ation				
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:	 EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives 				
	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					

SECTIO	SECTION 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%		
		тсој	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			



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

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Trading name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT					
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3	

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classifi	icatior	ו	Classification procedure			
-			-			
16.5.	Rele	evant H statements (num	ber and full text)			
	H:	H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.			
16.6.	Trai	ning advice:	-			
16.7.	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