

RETICULIN CONTRAST KIT

The kit contains:

4% formaldehyde, alcoholic solution
Ammonium iron sulfate, solution
Gold chloride, 0.2% solution
Nuclear Fast Red (Kernechtrot) reagent
Oxalic acid, 1% solution
Potassium permanganate, 0.5% solution
Silver ammonia solution
Sodium thiosulfate, 5% solution
Sulfuric acid, 3% solution



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Trade name:	4% FC	4% FORMALDEHYDE, ALCOHOLIC SOLUTION			
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4

1.1.	Product identifier				
	Trade name:	4% FOR	RMALDEHY	DE, ALCOHOLIC SOLUTION	
	Chemical name:	_			
	Catalogue number:	F4A-01	-X**		
1.2.	Relevant identified us	es of the s	substance o	or mixture and uses advised against	
	Uses:	For	use with R	eticulin and Reticulin Contrast staining kits.	
	Uses advised against:	On	y the ident	ified uses are advised.	
	Reasons why uses regis		ne product is intended for use only as an <i>in vitro</i> diagnostic medical device, gistered at the Agency for Medicinal Products and Medical Devices and ere 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:	Telefax:		+385 1 2404039	
	e-mail of competent p	person:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone numbers			
	National Protection as Directorate:	nd Rescue		112	
	Medical information:			+385 1 2348 342	
	Other information:			_	

SECTIO	ION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	1. Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and cate	code: Hazard statement*:			
	Flam. Liq. 2	H225			
	Skin Sens. 1	H317			
	Muta. 2	H341			
	Carc. 1B	H350			
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard	ements: see Section 16.			
2.2.	Label elements				
	Product identification: 49	RMALDEHYDE, ALCOHOLIC SOLUTION			



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	Identification number:	-
	Authorisation number:	-
	Hazard pictograms:	GHS02 GHS08 GHS07
	Signal word:	Danger
	Hazard statement:	 H225 Highly flammable liquid and vapor. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H350 May cause cancer.
	Precautionary statement:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P308+P313 IF exposed or concerned: Get medical advice/attention.
	Supplemental hazard information (EU):	-
2.3.	Other hazards	
		ntains no components considered to be either persistent, bioaccumulative and ent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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)	



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64-17-5/ 200-578-6/ 603-002-00-5	-	50 – 70 %	ethanol	Flam. Liq. 2; H225
30525-89-4/ 608-494-5/ -	-	3 – 4 %	paraformal dehyde	Acute Tox. 4; H302 Skin Irr. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 Acute Tox. 4; H332 STOT SE 3; H335 Muta. 2; H341 Carc. 1B; H350

SECTI	ON 4. First aid measures	
4.1.	Description of first aid meas	ures
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.
	Following skin contact:	Remove all contaminated clothes using sterile gauze. 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. Do not induce vomiting. 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 a	and effects, both acute and delayed
	Following inhalation:	Depending on concentration and exposure time, irritation of the mucous membrane of the nose/throat may occur (burning sensation, urge to sneeze, runny nose). High concentration levels may cause difficult breathing, coughing, chest tightness, headache, pneumonia and pulmonary edema.
	Following skin contact:	Depending on concentration and exposure time, redness accompanied by sensation of stinging and pain may occur, defatting, skin cracking, rash, swelling, burns, blisters and delayed onset of inflammations.
	Following eye contact:	Depending on concentration and exposure time, mucosa stinging, lacrimation, redness and pain may occur, as well as bleeding, delayed onset of inflammations and permanent eyesight damage.



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	Following ingestion:	Depending on concentration and exposure time, stinging and possible damage to the mucous membrane of the digestive tract is possible, as well as abdominal pain, nausea, vomiting (bloody vomit is possible), vertigo, headache, eyesight disorders and permanent blindness due to optical nerve damage, loss of consiousness.
4.3.	Indication of any immedi	ate medical attention and special treatment needed
	-	

SECTI	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	water spray or alcohol-resistant foam, dry powder, CO ₂			
	Unsuitable extinguishing media:	No information available			
5.2.	Special hazards arising from the s	ubstance or mixture			
	Hazardous by products of fire:	Possible liberation of toxic carbon monoxide and formaldehyde gases due to thermal decomposition (increased temperature). Explosive mixtures of formaldehyde vapors and air also present danger.			
5.3.	Advice for firefighters	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, in order to prevent explosion.				
5.4.	Additional information				
	Remove sources of heat and ignit	ion. Do not contaminate the environment with extinguishing media.			

SECTIO	ON 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel:		
	Protective equipment:	Use personal protective equipment (see Section 8).	
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Remove all sources of sparks and ignition. 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 materials for containme	ent and cleaning up	



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6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	Do not use incompatible materials (see Section 10).
6.4.	Reference to other se	ections
	-	

SECTIO	ON 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.			
	Measures to prevent aerosol and dust form	nation:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:		y closed and upright set containers in a well rage rooms at temperatures ranging from 15 to			
	Containers materials:	Manufacturer	r's original packaging.			
	Requirements for storage and containers:	Keep away fro	om food and drink. Keep the containers tightly			
	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.				
	Other information on storage conditions:	not use empty	the unused material in the storage room and do y containers for storing other chemicals. Do not ompatible materials (see Section 10).			
7.3.	Specific end use(s)					
	Recommendations:	-				



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Industrial se	ctor spe	cific solutio	ns:					
SECTION 8. Exposur	e contr	ols/persona	al protec	tion				
8.1. Control para	meters							
Substance		CAS I	No		Occupational exposure limit values/short term values		Bio	ological limit values
					ppm	mg/m³		
Ethanol		64-17	7-5	1	000/-	1900/-		-
Substance: -		<u> </u>						
EC No: -		CAS No.:	-					
DNEL								
				Inc	lustrial	_		
Route of exposure:		te effect local		cute et systen		Chronic e		Chronic effect systemic
Oral	-		-			-		-
Inhalation	1900 r (ethan	-	-			-		380 mg/m³ (ethanol)
Dermal	-		-			-		343 mg/kg (ethanol)
Critical physical para	neters: s	solubility, fla	ımmabilit	ty, cor	rosivity:	-		•
				Co	nsumer			
Route of exposure:		te effect local		Acute effect systemic		Chronic e		Chronic effect systemic
Oral	-		-			-		87 mg/kg bw/day (ethanol)
Inhalation	950 m (ethan	_	-			-		114 mg/m³ (ethanol)
Dermal	-		-			-		206 mg/kg (ethanol)
PNEC								
Environmental protection target			PNEC					
Fresh water			0.96 mg/l (ethanol)					
Fresh water sediments			3.6 mg/kg (ethanol)					
Salt water			0.79 mg/	/l (ethanol)				
Salt water sediments				2.9 mg/kg (ethanol)				
Food chain					380-720	mg/kg (ethano	ol)	
Microorganisms in se	wage tr	eatment			580 mg/	l (ethanol)		
Soil (agricultural)			0.63 mg/kg (ethanol)					



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Air		no information available				
8.2.	Exposure controls	xposure controls				
8.2.1.	Appropriate engineering controls					
	Substance/mixture related measures to prevent exposure during identified uses:	Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prevent exposure:	No information available				
	Organisational measures to prevent exposure:	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	3.2.2. 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:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN374. Full contact: Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Splash contact: Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min				
	Other skin protection:	Complete suit protecting against chemicals (EN 340) The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace and shoes that cover the entire foot.				
8.2.2.3.	Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type P3 (EN 143) respirator cartridges as a backup to engineering controls.				
8.2.2.4.	Thermal hazards:	No information available				
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Section 6				



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

Information on basic physical ar	nd chemical properties	
	Value	Method
Physical state:	liquid	No information available
Color:	colorless	No information available
Odour/odour threshold:	sharp/no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lover and upper explosion limit:	No information available	No information available
Flash point:	21 °C	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density	No information available	No information available
Relative vapour density:	No information available	No information available
· · · · · · · · · · · · · · · · · · ·	No information available	No information available

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



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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:	Strong oxidizing agents.
10.6.	Hazardous decomposition products:	Carbon oxides.

	. Toxicological inform						
	rmation on toxicologic te toxicity:	al effects					
Route of exposure:	Method	Species	LD ₅₀ /I	ve Dose LC ₅₀ or	Exposure tim	ne	Results
Oral	No information available	rat	L	O ₅₀	No information available		7.060 mg/kg (ethanol) 800 mg/kg (paraformalde hyde)
Dermal	No information available	rabbit	L	D ₅₀	No information available		>20.000 mg/kg (ethanol) 10.000 mg/kg (paraformalde hyde)
Inhalation	No information available	rat	LC	.C ₅₀ 4 h			>8.000 mg/l (ethanol) 1.07 mg/l (paraformalde hyde)
Spe	cific target organ toxici	ity - single ex	xposure (STO	T-SE):			
	Spec	ific effects		Ţ	arget organ		Note
Oral	No information ava	ilable		No infor	mation available	-	
Dermal	No information ava	ilable		No infor	mation available	-	
Inhalation	No information ava	ilable		No infor	rmation available	-	
Asp	iration hazard:		no informat	ion availa	ble		
Irrita	ation and corrosion						
	Exposu	re time	Species	Εν	valuation Meth	od	Note



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Skin corrosion/irritati	on:			-	–		-	no information available
Serious eye damage/irritatio	n: -			_	-		-	no information available
Sensitiz	ation							
Skin sensitizatio	n:	Ма	y cause an alle	rgic skin reactio	n.			
Respiratory sensitization: No information				/ailable.				
		·						
Sympto	ms relate	ed to the p	ohysical, chemi	cal and toxicolo	gical ch	aracterist	ics	
Oral exposure: Depending on conc and abdominal pain, of perforation of the delayed development				ramps, bloody vo esophagus, stom	omiting, nach an	cyanosis	, respiratory in	sufficiency, danger
Depending on con hardening and tann edema, urticaria, de				of the skin as w	ell as an	esthesia,	-	
Inhalation expos	sure:	the nos asthmoi coughin	e/throat (burr d reactions; f g, tightness in	ning sensation, or higher conc the chest, heada	urge t entratio iche, rea	o sneeze ns severe actions of	e, running no e difficulty in the circulatory	ous membranes of se), possibly even breathing, fits of system, danger of monia, pulmonary
Eye exposure:			ent corneal les	ensity of exposur ion: seriousness				
Repeat	ed dose t	oxicity (su	bacute, subch	ronic, chronic)				
1 -		ose	Exposure time	Species	Met	hod	Evaluation	Note
Subacute oral	No info	ormation le	No information available	No information available		rmation able	No information available	-
Subacute dermal	No information available		No information available	No information available		rmation able	No information available	-
Subacute inhalation	No information available		No information available	No information available		rmation able	No information available	-



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Product code: F4A-O1-X**			Date of compilation: 21 Decer			ember 2022	\	/ersion:	4		
Subchronic oral	No informat available	ion	No information available		No information available		ation le	No informatio available	n	_	
Subchronic dermal	No information available		No information available	No information available		No information available		No informatio available	information		
Subchronic inhalation	No informat available	No information available			No information available		ation le	No information available		-	
Chronic oral	No information available		No information available	No informa availabl		No informa availab		No informatio available	n	-	
Chronic dermal	No information available		No information available		No information available		ation le	No information available		-	
Chronic inhalation	No information available		No information available	No information available		No informa availab		No information available		-	
Specific	target organ	toxic	ity - repeated	exposure (S	STOT-R	?F)·					
J Docume	target organ		Specific eff				et orga	n		Note	
Subacute oral		No	information a		No ir	nformatio			_		
Subacute derma			information av					-	_		
Subacute inhalin	q	No	information av	vailable	No ir	nformatio	n avail	able	-		
Subchronic oral	_	No	information av	vailable	No ir	nformatio	n avail	able	-		
Subchronic derm	nal	No	information av	vailable	No ir	nformatio	n avail	able	-		
Subchronic inhal	ing	No	information av	vailable	No ir	nformatio	n avail	able	-		
Chronic oral		No	information av	vailable	No information available -			-	-		
Chronic dermal		No	information av	vailable	No information availabl		able	-			
Chronic inhaling		No	information av	vailable	No ir	nformatio	n avail	able	-		

CMR effects (carcinogenicity,	CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)						
Carcinogenicity:	Presumed to have carcinogenic potential for humans						
 Mutagenicity <i>In-vitro</i> :	No information available						
Genotoxicity:	No information available						
 Mutagenicity <i>In-vivo</i> :	No information available						
 Germ cell mutagenicity:	Suspected of causing genetic defects.						
 Reproductive toxicity:	No information available						



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	Summary of evaluation of the CMR properties:	No information available								
11.2.	Information on other hazards:	Information on other hazards:								
11.2.1.	Endocrine disrupting properties:									
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.									
11.2.2.	Other informations:									
	-									

SECTION 12. Ecologi	ical informa	tion				
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Oncorhynchus mykiss (rainbow trout)	No information available	46 – 78 mg/l (paraformaldehyde)	_
Crustacea:	EC ₅₀	48 hours	Daphnia magna (water flea)	No information available	42 mg/l (paraformaldehyde)	-
Algae/aquatic plants:	IC ₅₀	8 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	_



Trade name:

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Other evenien											
Other organism	IIS.	-	-	-		-	-	-		-	
12.2. Persis	tence	e and degrada	bility								
		gradation									
		Degradation	half-lives		Metho	od		Εν	aluation		Note
Marine water	No	o information	available	No	o information a	avai	ilable	No informa	ation ava	ilable	-
Fresh water	No information available		No	o information a	avai	ilable	No informa	ation ava	ilable	-	
Air	No	o information	available	No	o information a	avai	ilable	No informa	ation ava	ilable	-
Soil	No	o information	available	No	o information a	avai	ilable	No informa	ation ava	ilable	-
Biode	grad	ation									
% Degradation	Time (days)			Method		Eva	aluation		Note		
No information available available		/ailahla 🗀	No information available		No information available		No information available				
	1										
12.3. Bioacc	cumu	ulative potentia	al								
Octan	ol/w	ater partition o	coefficient	(log P	ow):						
Value	Со	ncentration	рН	°C	Method	d		Evaluation	1	No	ote
No information available		information ilable	-	-	No information available		No i	No information availabl		No information available	
5:			(D.C.E.)								
	ncen	tration Factor					_				
Value		Speci			Method			aluation 		Note	
		No information available			No information available		No information available		-		
		<u> </u>		<u> </u>					1		
Chron	ic ec	otoxicity									
1		•									



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Product code:		F4A-OT-X**	Da	Date of compilation:		ber 2022 V	Version: 4	
	Value	Dos	e Exposure time	Species	Method	Evaluation	n Note	
Chronic toxicity on fish LC ₅₀		No information available	No information available	No information available	No information available	ı -		
Chronic toxicity on Crustacea (Daphnia)		: F (FA	No information available	No information available	No information available	No informatior available	۱ –	
12.4.	Mobility ir	n soil						
	Known or	predicted distri	bution in environi	mental compartme	ents:			
	No information available							
	Surface tension:							
	Value °C		Concentratio n	Meth	nod	1	Note	

	Value	°C	Concentratio n	Method	Note
	No information available	No informatio n available	No information available	No information available	-

Ads	Adsorption / desorption				
Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-Water	No information available	No information available	No information available	No information available	-
Water-Air	No information available	No information available	No information available	No information available	-
Soil-Air	No information	No information	No information	No information	-

available

available

Results of PBT and vPvB assessment 12.5.

available

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

available

12.6. Endocrine disrupting properties



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	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.		
12.7.	Other adverse effects		
	No information available		
	N 13. Disposal considerations		
13.1.	Waste treatment methods		
13.1.1.	Product/packaging disposal:		
	Submit for disposal to the leg Protection.	al person authorized by the Ministry of Environmental and Nature	
13.1.2.	Waste codes/waste designation	ons according to law:	
	15 01 10*: packaging that contains residual hazardous substances or is contaminated with hazardous substances		
13.1.3.	Waste treatment – relevant in	nformation:	
	No information available		
13.1.4.	Sewage disposal – relevant in	formation:	
	Waste must not be disposed		
13.1.5.	Other disposal recommendat	ions:	
	authorized by the ministry in	t's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. Submit rs authorized by the ministry in charge.	
13.1.6.	Relevant Community provisio	ns:	
	-		
SECTIO	N 14. Transport information		
	Transporting/shipment by road		
UN nun		1170	
······	per shipping name:	Ethanol solution	
•	ort hazard classes:	3	
Packing	group:		



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

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Trade name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION				
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4

Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by rail (RID)
UN number	1170
UN proper shipping name:	Ethanol solution
Transport hazard classes:	3
Packing group:	II .
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inlar	nd waterways (ADN)
UN number	1170
UN proper shipping name:	Ethanol solution
Transport hazard classes:	3
Packing group:	II
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea ((IMDG)
UN number	1170
UN proper shipping name:	Ethanol solution
Transport hazard classes:	3
Packing group:	II
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk according to Annex I of MARPOL 73/78 and the IBC code:	1
Transporting/shipment by air (I	CAO-TI/IATA-DGR)
UN number	1170
UN Proper shipping name:	Ethanol solution
Transport hazard classes:	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-



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Trade name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION				
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4

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

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



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Trade name:	4% FC	RMALDEHYDE, ALCOHOLIC SOLUTION			
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4

16.2.		oreviations and onyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
16.3.		literature references source of data:	-
16.4.		ssification and procedure 72/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classifi	Classification		Classification procedure
-			-
16.5.	Rel	evant H statements (num	ber and full text)
		225	Highly flammable liquid and vapor.
		302	Harmful if swallowed.
	H:	315	Causes skin irritation.
		317	May cause allergic skin reaction.
		318	Causes serious eye damage.
		332	Harmful if inhaled.
		335	May cause respiratory irritation.
		341	Suspected of causing genetic defects.
		350	May cause cancer.
16.6.	Tra	ining advice:	-
16.7.	16.7. Further notice:		** "X" in the product code marks different volumes (different packaging 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 assessm	ent

-



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

1.1.	ON 1: Identification of the substance/mixture and of the company/undertaking Product identifier				
	Trading name:	AMMC	NIUM IRON SUL	FATE, SOLUTION	
	Chemical name:	-	-		
	Catalogue number:	ASF-O	Γ-X**		
1.2.	Relevant identified us	es of the	substance or mix	cture and uses advised against	
	Uses:		For use with Re	eticulin and Reticulin Contrast staining kits.	
	Uses advised against:			fied uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:	Fax no.:		+385 1 2404039	
	e-mail of competent p	e-mail of competent person:		msds@biognost.hr	
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone number			
	National Protection a	nd Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:				

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



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

	Signal word:	-	
	Hazard statements:	-	
	Precautionary statements:	-	
	Further information:	-	
2.3.	Other hazards		
	Endocrine Disrupting Propertie	ss:	
	No known endocrine disrupting properties Results of PBT and vPvB assessment : According to the results of its assessment, this substance is results of its assessment.		
	PBT or a vPvB.		

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

SECTIO	ION 4. First aid measures				
4.1.	Description of first aid meas	sures			
	General notes:		-		
	Following inhalation:		No information available		
	Following skin contact:		No information available		
	Following eye contact:		No information available		
	Following ingestion:		No information available		
	Self-protection of the first a	ider:	Treat symptomatically.		
4.2.	Most important symptoms	and eff	ects, both acute and delayed		
	Following inhalation:	No i	nformation available		
	Following skin contact:	No i	nformation available		
	Following eye contact:	No i	nformation available		
	Following ingestion:	No information available			
4.3.	Indication of any immediate	Indication of any immediate medical attention and special treatment needed			
	-				

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



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

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

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



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

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

SECTIO	SECTION 8. Exposure controls/personal protection					
8.1.	Control parameters					
Substance		CAS No	Occupational exposure limit values/short term values		Biological limit values	
			ppm	mg/m³		
-		-	-	-	No information available	
Substai name:	nce -					



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·					,

EC No:	-		CAS No:	-				
DNEL	i		·					
				Inc	lustrial			
Route o	f	Д	cute	Acut	e	Chronic	Chronic	
exposur	e:	effe	ct local	effect sys	temic	effect local	effect systemic	
Oral		-		-		-	-	
Inhalatio	n	1		-		-	-	
Dermal		1		-		-	-	
Critical p	hysical parar	neters: s	olubility, fla	mmability, cor	rosivity:	-		
				Co	nsumer			
Route o			ct local	Acute effect sys	_	Chronic effect local	Chronic effect systemic	
Oral		-		-		-	-	
Inhalatio	n	-		-		-	-	
Dermal		-		-		-	-	
PNEC							·	
Environmental protection target					PNEC			
Fresh wa	iter				No information available			
Freshwat	ter sediments	5			No information available			
Marine v	vater				No infor	mation available		
Marine s	ediments				No information available			
Food cha	ain				No information available			
Microorg	ganisms in se	wage tre	eatment		No infor	mation available		
Soil (agri	icultural)				No information available			
Air					No information available			
8.2.	Exposure	control	S					
8.2.1.	Appropri	iate eng	ineering cor	ntrols				
		s to prev	re related /ent exposu uses:	re :	•	n well ventilated rooms. ot eat, drink or smoke in	•	
	Structura exposure		res to preve	ent No info	rmation av	/ailable		
	Organisa prevent e		neasures to e:		ation of w	ork in order to reduce o	ther worker's influence	
	Technica exposure		res to preve	· ·		rkspace ventilation in ordels in air below permitted	-	



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION			
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version: 5

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	Skin protection			
	Hand protection:		otective gloves must be according to the EU Directive 2016/425/EEC and andard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm		
			Break through time: >480 min		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) 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 prevent exposure:		Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pr exposure:	event	See Section 6		

SECTI	SECTION 9. Physical and chemical properties				
9.1.	Information on basic physical and che	emical properties			
		Value	Method		
	Physical state:	liquid	No information available		
	Colour:	light brown	No information available		
	Odour/odour threshold:	no odor/no information available	No information available		
	Melting point / freezing point:	No information available	No information available		
	Boiling point or initial boiling point and boiling range:	No information available	No information available		
	Flammability:	No information available	No information available		
	Lover and upper explosion limit:	No information available	No information available		
	Flash point:	No information available	No information available		



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
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	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	Other information		
	-		

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

11.1.	Information on toxicological effects						
	Acute toxic	city:					
Route o		Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results	
Oral exp	oosure:	No information available	-	LD ₅₀	-	-	
Dermal exposure:		No information available	-	LD ₅₀	-	-	
Inhalation exposur		No information available	-	LC ₅₀	-	-	



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Trading name:	AI	MMONIUM IRON SULI	FATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

Product code:	ASF-OT-X**	Da	ate of compilat	tion: $21 De$	ec 2022	Version: 5	
	Spe	ecific effects		Target orga	n _	Note	
Oral exposure:	No informa	ation available	No infor	mation availa	ble	-	
Dermal exposure	e: No informa	ation available	No infor	mation availa	ble	-	
Inhalation expos	ure: No informa	ation available	No infor	No information available -			
Respira	tory irritation:	N	o information a	vailable			
Irritatio	n and corrosion						
	Exposure time	e Specie	es Eva	aluation	Method	Note	
Skin irritation:	-	-	-		-	-	
Eye irritation:	-	-	-		-	-	
Sensitiz	ation						
Dermal exposure	e: No information	available					
Inhalation exposure:	No information	available					
Sympto	ms related to the pl	nysical, chemic	al and toxicolog	jical character	istics		
Oral exposure:	No information	No information available					
Dermal exposure	e: No information	No information available					
Inhalation exposure:	No information	No information available					
Eye exposure:	No information	available					
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No information available	No information available	No information available	No informatio n available	No informa available	ation _	
Subacute dermal	No information available	No information available	No information available	No informatio n available	No informa available	ation _	
Subacute inhalation	No information available	No information available	No information available	No informatio n available	No informa	ation _	



Reproductive toxicity:

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Trading name:	A	MMONIUM IRON SULI	ATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

					'			
Subchronic oral	No availa	information able	No information available		rmation lable	No informatio n available	No information	on -
Subchronic dermal	ubchronic No information info		No information available		rmation lable	No informatio n available	No information	on -
Subchronic inhalation	ubchronic No information		No information available		rmation lable	No informatio n available	No information	on -
Chronic oral	No intermation		No information available		rmation lable	No informatio n available	No information	on -
Chronic dermal	hronic dermal No information available		No information available		rmation lable	No informatio n available	No information	on -
Chronic No information available		No information available		rmation lable	No informatio n available	No information	on -	
	•			•		,	•	,
Specific	target	organ toxicit	y – repeated e	xposu	ire (STOT	RE):	-	
		Spe	cific effects			Target orga	an	Note
Subacute oral		No informa	ation available		No infor	mation availab	ole	-
Subacute derma	<u> </u>	No informa	ation available		No infor	mation availab	ole	-
Subacute inhalat	ion	No informa	ation available		No infor	mation availab	ole	-
Subchronic oral			ation available			mation availab		-
Subchronic dermal No informatio						mation availab		-
Subchronic inhalation No information						mation availab		-
			ation available		<u>:</u>	mation availab		-
	Chronic dermal No informati					mation availab		-
Chronic inhalation No information			ation available		No infor	mation availab	ole	-
CLID (C ′					end to V		
			y, mutagenicit	<u> </u>				
Carcino					n available			
Mutage Genoto	<u>.</u>	TI-VILIO:			n available n available			
Mutage	······	n-vivo			ı available			
	<u>-</u>	agenicity:			n available			
50								

No information available



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Trading name:	Al	MMONIUM IRON SULI	ATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

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

SECTION 12. Ecological information 12.1. Toxicity Exposure

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



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Trading	g name	me: AMMONIUM IRON S			SULFATE, SOLUTION							
Produc	t code:		ASF-OT-X**		Da	te of compilati	on:	21 Dec	2022	Versio	ո: 5	
		:			:					:	:	
Other o	rganism	ns	-	-	-		-		-	-		
12.2.	Persist	tence	e and degradab	oility								
	Abioti	c deg	gradation									
		D	egradation hal	f-lives		Method			Evaluatio	n	Note	
Marine water		No i	information av	ailable	No info	ormation availab	le	No inform	nation ava	ailable	-	
Fresh w	ater	No i	information av	ailable	No info	ormation availab	le	No inform	nation ava	ailable	-	
Air		No i	information av	ailable	No info	ormation availab	le	No inform	nation ava	ailable	-	
Soil		No information available		No info	ormation availab	le	No inform	nation ava	ailable	-		
	Biode	grada	ation		:							
% Degr	% Degradation Time (days)		N	Method		Evaluatio	n	N	ote			
	No information No informavailable available		nation	No information No info		o informatio		No informa [.] available	tion			
avaliabl	<u> </u>	a	ivaliable		avaliable		av	allable		avaiiabie		
12.3.	Bioacc	umu	lative potentia	ı								
. =,0.			oefficient: n-octanol/w		vater (log k	(ow):						
Value			Concentration pH		°C Method			Evalua	ation		Note	
		10	information	<u> </u>		No information	1	No inform	nation			
-	a	vaila	ble	-	-	available		available		-		
	Biocor	ncent	tration factor (l	BCF)								
V	alue		Species		N	1ethod		Evaluation		ľ	Note	
No info		1	No inform	ation	No inform	nation				No inforr	nation	
availabl	e		available		available		av	ailable		available		
		2 8 8 8 8 8 8 8										
	Cl											
	Cnron	ic ec	otoxicity		- Francisco							
	Value	e 	Dos	e	Exposure time	Species		Method	Eval	uation	Note	
Chronic	toxicity	on '	fish LC ₅₀	N	lo	No	No)	No info	rmation	-	



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Trading name:	,	AMMONIUM IRON SUL	FATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

Known or predicted distribution in environmental compartments: No information available Surface tension: Value °C Concentration Method Note No information information available No information available No information available Adsorption / desorption Transport A/D coefficient Henry's constant No information available No information availa					nformation vailable	information available	available	
Known or predicted distribution in environmental compartments: No information available Surface tension: Value °C Concentration Method Note No information available No information available Adsorption / desorption Transport A/D coefficient Henry's constant No information available No information available No information available		-	EC ₅₀	information in	nformation	information		nation _
Known or predicted distribution in environmental compartments: No information available Surface tension: Value °C Concentration Method Note No information available No information available No information available Adsorption / desorption Transport A/D coefficient Henry's constant No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available N	10.4 Ma	المالية المالية	1					
No information available Surface tension: Value °C Concentration Method Note No information available Information available Adsorption / desorption Transport A/D coefficient Henry's constant No information available Information available No information available				ion in onvironmen	ntal compart	monts:		
Surface tension: Value °C Concentration Method Note No information information available No information available Adsorption / desorption Transport A/D coefficient Henry's constant No information available No information available No information available		•			itai compart	incres.		
Value								
No information available No information available No information available -				Concentration	on l	Method		Note
Transport A/D coefficient Henry's constant log Kow Evaporation rate Method Note Soil-water No information available No i	inf	ormation	information	No informatio	n		lable	
Soil-water No information available No information available information available information available No information available information available No information available available No information available No inform	!	A/D	coefficient	log Kow	Evapor	ation rate	Method	Note
Water-air No information available	Soil-water	No	information			nation	information	<u> </u>
Soil-air No information No information No information information -	Water-air		information			nation	No information	1 -
	Soil-air		information			nation	information	-
	aco	ording to F	REACH Article 5	7(f) or Commissio	n Delegated			
The substance/mixture does not contain components considered to have endocrine disrupting propert according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.								
according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission	12.6							



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Trading name:	AI	MMONIUM IRON SULI	ATE, SOLUTION	
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version: 5

12.7.	Other adverse effects								
	No information available								
SECTIO	ON 13. Disposal considerations								
13.1.	Waste treatment methods								
	i i								
13.1.1.	Product/Packaging disposal:								
	Submit for disposal to the leg- Protection.	al person authorized by the Ministry of Environmental and Nature							
13.1.2.	Waste codes/waste designation	ans according to Law.							
13.1.2.	1.2. Waste codes/waste designations according to Law: No information available								
13.1.3.	Waste treatment – relevant in	formation:							
	No information available								
13.1.4.	Sewage disposal – relevant in	formation:							
	Waste must not be disposed of into the sewage system.								
13.1.5.	Other disposal recommendations:								
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.								
13.1.6.	Relevant Community provisions:								
	-								
SECTIO	ON 14. Transport information								
	Transporting/shipment by road								
UN nui		Not subject to transport regulations.							
•	pper shipping name:								
·····	ort hazard class(es):								
	g group:								
	nmentally hazardous:								
Special	precautions for user:	-							



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION			<u>-</u>	
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

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

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			



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 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	ıt
	None	

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



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Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classifi	cation	Classification procedure		
_		-		
16.5.	Relevant H statements (numb	per 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.		

			_	_	
	ы	N	_	v	_
Δ	N	N	_	×	-

Exposure scenario resulting to Chemical safety assessment

-



SAFETY DATA SHEET

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

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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION				
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

1.1	Product identifier						
	Trading name:	GOLD CHLC	GOLD CHLORIDE, 0.2% SOLUTION				
	Chemical name:	-	-				
	Catalogue number:	ZK02-OT-X	<02-OT-X**				
1.2	Relevant identified us	es of the subst	tance or m	nixture and uses advised against			
	Uses:		Compor	nent of many special staining kits.			
	Uses advised against:			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 supplie	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	person:	msds@biognost.hr				
	National contact:	National contact:					
1.4	Emergency telephone	Emergency telephone number					
	National Protection a	National Protection and Rescue Dire		e: 112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	SECTION 2. Hazards identification						
2.1	Classification of the substance or mixture						
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and cate	egory code:	Hazard statements*:				
	Not identified as hazardous s	substance.	-				
2.1.2.	Additional information						
	-						
*For fu	ll text of Hazard- and EU Hazar	d-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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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION					
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	Endocrine Disrupting Proper	ties:		
	No known endocrine disruptin	g properties		
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not PBT or a vPvB.			

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

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



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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION					
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

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

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

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 me without protective equipment. Avoid breathing vapors and avoid owith skin and eyes. Do not smoke. Keep away from ignition source				
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	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 protective barrier or barriers made of similar materials.			



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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION					
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	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 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. Do not use tools that cause sparks. Do not smoke.	
	Measures to prevent aerosol and dust generation:		Secure proper ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
	Other measures:		Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Th	oroughly 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	n tightly closed and upright set containers in a ntilated storage rooms at temperatures ranging 5 to 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	
	Advices for storage equipment:	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper		



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

SECTION 8. Expos	ure contr	ols/perso	nal pr	otect	ion				
8.1 Control pa	arameters								
Substance		CA				Occupational exposure limit values/short term values		Biological limit values	
					p	ppm	mg/m³		
-	-			-	-	-			
Substance name:	-								
EC No:	-	CAS No	:	-					
DNEL	·								
					Ind	ustrial			
Route of	Acı	ıte		Acute	e		Chronic		Chronic
exposure:	effect	local	effe	ct syst	temic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
Critical physical pa	rameters: s	solubility,	flamm	ability	y, corr	osivity:	-		
					Con	sumer			
Route of	Ad	cute		Acute	e		Chronic		Chronic
exposure:	effec	ct local	effe	ct sys	temic	effect local			effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
PNEC									
Environmental pro	tection tar	get				PNEC			
Fresh water						no inform	ation available		
Freshwater sedime	nts					no information available			
Marine water						no information available			
Marine sediments						no information available			



Food chain

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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION					
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no information available

Microorga	Microorganisms in sewage treatment		no information available		
Soil (agric	:ultural)		no information available		
Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
0.2.1.	Appropriate engineering controls		Heatha product in well ventilated rooms. Heaparconal		
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to prevenexposure:	t	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent expo	osure:	Secure proper workspace ventilation in order to keep 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 tentire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
		-	otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
	Other skin protection:	footwe entire f impern	everyday work use cotton clothing (EN 340) and suitable 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 chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		



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

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

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



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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

	kicological informa tion on hazard classe		n Regulation	(FC) No 1272	2/2008	
Acute to		3 d3 demied ii	regulation	1 (20) 110 1272	-, 2000	
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure tii	me Results
Oral:	No information available	-	No inforr available	mation	_	-
Dermal:	No information available	-	No inforr available	nation	-	-
Inhalation:	No information available	-	No inforr available	mation	-	-
Specific	target organ toxicity	– single expo	sure (STOT :	SE): Target or	man	Note
Oral:	No information a		No		- Note	
Dermal:	No information a		No information available No information available			_
Inhalation:	No information a					_
milation.	No information e	- vanabie	140	mornation at	ranabic	
Aspiratio	on hazard:	No	o informatio	n available.		
Irritation	and corrosion				:	
	Exposure	time	Species	Evaluatio	n Method	Note
Skin corrosion/irritation	on:	-		-	-	-
Serious eye damage/irritation	-	-		-	-	-
Sensitiza	ation					
Skin sensitization		rmation availa	able.			
Respiratory sensi		rmation availa				



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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION					
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

Oral exposure:	No informa	tion available.				
Dermal exposure	e: No informa	tion available.				
Inhalation expos	ure: No informa	tion available.				
Eye exposure:	No informa	tion available.				
Repeate	ed dose toxicity (su	bacute, subchro	onic, chronic)	1	·	
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	–
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-



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Trading name:		GOLD CHLORIDE, 0.2%	SOLUTION		
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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; mutagenicit	y; reproductive	e toxicity)			
Carcinogenici	ty:	Based on ava	ilable data, the classification c	riteria are not met.		
Mutagenicity	in vitro:	Based on ava	ilable data, the classification c	riteria are not met.		
Genotoxicity:		Based on available data, the classification criteria are not met.				
Mutagenicity	in vivo:	Based on available data, the classification criteria are not met.				
Germ cell mut	tagenicity:	Based on available data, the classification criteria are not met.				
Reproductive	toxicity:	Based on ava	ilable data, the classification c	riteria are not met.		
Summary of properties:	f evaluation of the CN	MR Based or met.	n available data, the classifica	ation criteria are not		
11.2 Information o	on other hazards:					
11.2.1. Endocrine dis	rupting properties:					
The substant components disrupting pr Article 57(f) regulation (E	ce/mixture does not cont considered to have endocr operties according to REA or Commission Delegat U) 2017/2100 or Commissi U) 2018/605 at levels of 0.1%	ine CH ted ion				
11.2.2. Other informa	ations:					
_						

SECTION 12. Ecologic	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note



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Trading name:		GOLD CHLORIDE, 0.2%	SOLUTION		
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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
toxicity		unie				
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Fish	LC ₅₀			information	information	-
		96 hours	available No information	information available No information	information available No information	-

Abiotic degradation

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

О:	-	-1	_			-1	_		O	
к	\sim	$\boldsymbol{\alpha}$	Δ	\mathbf{n}	\mathbf{c}	$\boldsymbol{\alpha}$	2	TΙ	\sim	n

= 10 0.0 9.0 0.0				
% Degradation	Time (days)	Method	Evaluation	Note
No information available				



										Page	2 OT 16	
Tradin	g name:				GOL	D CHL	ORIDE	, 0.2% SOLU	TION			
Produc	ct code:	ZK02-	-OT-X**		Date	of co	mpilatio	on: 21 De	c 2022	١	/ersion:	4
					·			·				
12.3	Bioaccum	ılative p	octential									
	Octanol-w	ater pa	rtition coeffi	cient (log Kow)						
Valu	ie Coi	ncentrat	tion p	Н	°C	Ме	ethod	Evalu	ation		Note	
-	-		-		-	-		-		-		
	Bioconcen	tration	factor (BCF)									
V	/alue		Species		N	Method		Evaluati	on		Note	
No info	rmation	No	inform	ation	No info	ormatio	n	No informati	on			
availab	le	availal	ole		availab	le		available		-		
					5 5 6 7 8 8 9 8 9 8 9 8 9 8 9 8 9 8 9							
	1											
	Chronic ed	otoxicit	:y						i			
	Value		Dose		osure	Spe	ecies	Method	Evalu	ation	Note	<u> </u>
					ime				.			
Chronic	toxicity on	fish	LC ₅₀	No infor	mation	No inforr	nation	No information	No inform	ation	_	
G G				avail		availa		available	availab			
Chronic	tovicity on			No		No		No	No			
	toxicity on ea (<i>Daphnia</i>)	EC ₅₀		mation	1	nation	information	inform		-	
				avail	able	availa	ible	available	availab	le		
10.4	NA . 1 '11'	1										
12.4	Mobility in		1 11 - 11 - 1									
		•	ed distributi	on in e	environm	nental c	ompart	ments:				
	No inform		/ailable									
	Surface te	nsion:										
	Value		°C	С	oncentra	ition	·	Method			Note	
	No informatio	No n inf	ormation	No	informa	tion	No inf	ormation				
	available		ailable	ava	ilable		availak	ole	-			
	.1	<u>i</u>					<u> </u>					



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Trading name:		GOLD CHLORIDE, 0.2%	SOLUTION		
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	Adsorption / desorption				
Transport	t A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wate	No information available	No information available	No information available	No information available	-
Water-air	No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
	Results of PBT and vPvB asse		onents considered to	have endocrine d	icrunting properties
3	according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulat		
12.6. I	Endocrine disrupting propert	ies			
(The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulat		
12.7	Other adverse effects				
	No further relevant informati	on available.			
SECTION	I 13. Disposal consideration	S			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	l:			
13.1.1.	Product/Packaging disposal Submit for disposal to the I Protection.		rized by the Ministr	y of Environmental	and Nature
13.1.1.	Submit for disposal to the I	egal person autho		y of Environmental	and Nature
	Submit for disposal to the I Protection.	egal person autho) Law:		
	Submit for disposal to the I Protection. Waste codes/waste designated to the I Protection.	egal person autho ntions according to ontains residual ha) Law:		
13.1.2.	Submit for disposal to the I Protection. Waste codes/waste designated to the I Protection.	egal person autho ntions according to ontains residual ha) Law:		



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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION				
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	Waste must not be disposed	of into the sewage system.			
12.1.5	Other diament was a design				
13.1.5.	Other disposal recommendate				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collector authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.				
13.1.6.	ons:				
Disposal must be made according to official regulations.					
SECTION	N 14. Transport information				
	Transporting/shipment by road	d (ADR)			
UN num		Not subject to transport regulations			
	er shipping name:	-			
	t hazard class(es):	_			
Packing					
	nentally hazardous:	-			
	precautions for user:				
 	Transporting/shipment by rail ((RID)			
UN number:		Not subject to transport regulations			
UN proper shipping name:		-			
	t hazard class(es):	-			
Packing					
	nentally hazardous:	_			
	precautions for user:	-			
	Inland waterway transport (AD	N)			
UN num		Not subject to transport regulations			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing	group:	-			
Environmentally hazardous:		-			
Special precautions for user:		-			
	Transporting/shipment by sea	(IMDG)			
UN num	ber:	Not subject to transport regulations			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing	aroup:	-			



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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION				
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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: -	

.1 Safety, health and envi	Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU regulations			
Authorization and/or re	estrictions of use		
Authorizations:	-		
Restrictions:	-		
Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);		



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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION				
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	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessment	
	None	

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

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT			ī
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

1.1.	Product identifier					
	Trade name:	NUCLEAR FAS	ST RED (K	(ERNECHTROT) REAGENT		
	Chemical name:	-				
	Catalogue number:	KR-OT-X**				
1.2.	Relevant identified uses	of the substa	nce or mi	xture and uses advised against		
	Uses:		Counte	erstain in many special staining kits.		
	Uses advised against:			he 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 and there is no reason to use it for other purposes.			
1.3.	Details of the supplier of	Details of the supplier of the safety data sheet				
	Supplier: BioG		Gnost Ltd	nost Ltd.		
	Address: Me		edjugorska 59, Zagreb			
	Telephone number: +38		5 1 2409997			
	Telefax: +385		35 1 2404039			
	e-mail of competent person: msds		ls@biognost.hr			
	National contact:	National contact: -				
1.4.	Emergency telephone n	Emergency telephone number				
	National Protection and Rescue Director		torate:	112		
		Medical information:				
	Medical information:			+385 1 2348 342		

SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category code: Hazard statement*:				
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
* For fu	ll text of Hazard- and EU Hazard-sta	atements: see SE	CTION 16		
2.2.	Label elements				
	Product identification:	NUCLEAR FAST	RED (KERNECHTROT) REAGENT		
	Identification number:	-			
	Authorisation number:	-			
	Hazard pictograms:	-			



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT					
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	Signal word:	-	
	Hazard statement:	-	
	Precautionary statements:	-	
	Supplemetal hazard information (EU)	-	
2.3.	Other hazards		
	Endocrine Disrupting Properties:		
	No known endocrine disrupting properties.		

SECTION 3. Com	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				

SECTI	ECTION 4. First aid measures				
4.1.	Description of first aid meas	ures			
	General notes:	-			
	Following inhalation:	Remove person to fresh air. If breathing stops, immediately apply artificial respiration. If breathing difficulties occur, use emergency breathing apparatus. If the symptoms persist, immediately consult a physician.			
	Remove all contaminated clothes using sterile gauze. Immediately we with plenty of water for at least 20 minutes. Seek medical assistance 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. Do not induce vomiting. 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 a	and effects, both acute and delayed			
	Following inhalation:	No information available			
	Following skin contact:	No information available			
	Following eye contact:	No information available			
	Following ingestion:	No information available			



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Trade name:		7		
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

4.3.	Indication of any immediate medical attention and special treatment needed		
	No information available		

SECTIO	SECTION 5. Firefighting measures			
5.1.	Extinguishing media			
	Suitable extinguishing media:		Water, CO ₂ , foam, dry powder	
	Unsuitable extinguishing medi	a:	No information available	
5.2.	Special hazards arising from th	ne substa	ance or mixture	
	Hazardous combustion products:	No information available.		
5.3.	Advice for firefighters			
	Firefighters must always use fireproof suit and self-sustaining breathing apparatus with open circle that contains pressurized air in case of fire in closed space.			
5.4.	Additional information			
	Prevent spills and water used for putting out fire from contaminating waterways by enclosing and covering drains.			

SECTIO	ON 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	. For non-emergency personnel		
	Protective equipment:	Use protective equipment in accordance with Section 8. Do not get in eyes or on skin. Do not inhale vapor/aerosols. Remove the persons not directly involved in rescuing procedure from the scene of event.	
	Accident prevention methods:	Keep away from heat, flames and sparks. Secure proper ventilation. Prevent electrostatic charge buildup. Use only grounded devices and equipment. Do not release in drains - explosion hazard.	
	Emergency procedures:	In case of accident secure the location and evacuate the personnel not involved in recovery.	
6.1.2.	For emergency responders:		
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).		
6.2.	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact N Protection and Rescue Directorate (NPRD) on 112.		
6.3.	Methods and material for containm	nent and cleaning up	



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT					
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6.3.1.	Bunding, covering of drains; capping procedures:	Sand bags.		
6.3.2.	Cleaning up:	Where possible, soak up the product using inert matter, such as sand, silica gel, saw dust). 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:	Recovery of contaminated area should only be conducted by qualified person that uses stipulated protective equipment. Prevent the waste water from entering waterways.		
6.4.	Reference to other sections			
	See Section 7 for information about secure handling.			
	See Section 8 for information about personal protective equipment.			
	See Section 13 for information about containment.			

SECTIO	SECTION 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protective measures				
	Measures to prevent fire:	Keep away from heat, flames and sparks. Secure proper ventilation.			
	Measures to prevent aerosol and dust generation	Adequate ventilation of the rooms where the product is kept and handled. Containers must be firmly closed.			
	Measures to protect the environment:	Keep the containers firmly closed in vertical position when the product is not used. Prevent the product from entering waterways, sewerage and drainage systems by using barrage and semi-barrage made of sand, as well as covering the drainage by using plastic foil.			
	Other measures:	-			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. The	oroughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	In dry, cold and well-ventilated space. Containers must be firmly closed. Maintain adequate ventilation of the rooms where the product is kept and handled.			
	Packaging materials:	Manufacturer's original packaging.			



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	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	Keep away from heat, flames, sparks and sunlight.
	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:	Secure stations for rinsing eyes and showering in the vicinity of work area.
	Industrial sector specific solutions:	-

						viciriity	vicinity of work area.			
	Indust	rial sec	ctor spe	cific solutio	ns:	-				
				ols/persona	l pro	tection				
8.1.	Contro	ol para	meters							
	Substa	ince		CAS	No	Occupational values/shor			Biolo	ogical limit values
						ppm	ı	mg/m³		
-			-		-		-		-	
Substar name:	nce	-								
EC No:		-		CAS No:		-				
DNEL										
						Industrial				
Davita	- £		Acute effect			Acute effect		Chronic effe	ct	Chronic effect
Koute	of expo	sure:	local		systemic			local		systemic
Oral			-		-		-			-
Inhalati	ion		1		-		-			-
Dermal			-		-		-			-
Critical	physical	paran	neters: s	olubility, fla	mmal	bility, corrosivity:				
						Consumer				
Douts	of over		Acu	te effect		Acute effect		Chronic effe	ct	Chronic effect
Koute	of expo	sure:		local		systemic		local	ıl syste	
Oral -		-		-		-			-	
Inhalati	ion		1		-		-			-
Dermal			-		-		-			-
					•				,	



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Environm	ental protection target		PNEC		
Fresh wat	er		No information available		
Freshwate	er sediments		No information available		
Marine wa	ater		No information available		
Marine sediments			No information available		
Food chai	in		No information available		
Microorga	anisms in sewage treatment		No information available		
Soil (agric	cultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering control	S			
	Substance/mixture related measures to prevent exposure during identified uses:		product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:	In accor	accordance with Section 7.		
	Organisational measures to prevent exposure:	_	panization of work in order to reduce other worker's influence ing work process.		
	Technical measures to prevent exposure:		proper workspace ventilation in order to keep tration levels in air below permitted levels.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	levels o	plasses that stick to face (EN 166) or visor in case of lower f concentration in air; protective gas mask that covers the ace in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection				
			ive gloves must be according to the EU Directive 25/EEC and standard EN 374.		
	Hand protection:		Glove material: nitrile rubber		
			Glove thickness: ≥0.50 mm		
			Break through time: >480 min		
	Other skin protection:		ntistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 13034), and shoes that cover the entire foot (35).		
8.2.2.3.	Respiratory protection:	Suitable mask or half mask equipped with a combined "A-P" filte and used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No info	rmation available		
8.2.3.	Environmental exposure controls				



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Trade name:		NUCLEAR FAST RED (KERNECHTROT) REAGENT				
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Substance/mixture related measures to prevent exposure:	See Section 6
Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

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

SECTION 10.: Stability and reactivity



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
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10.1.	Reactivity:	See subsections 10.3 through 10.5.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.
10.3.	Possibility of hazardous reactions:	No information available.
10.4.	Conditions to avoid:	No information available.
10.5.	Incompatible materials:	No information available.
10.6.	Hazardous decomposition products:	No information available.

SECTION 11 Toxico	ological information						
	n on toxicological effe	cts					
Acute toxic	ity:						
Route of exposure:	Method	Species	LD	ctive dose ₅₀ /LC ₅₀ or TE _{mixture}	Exposur	re time	Results
Oral:	No information available	_	No inf availat	ormation ole	No infor availa		_
Dermal:	No information available	_	No inf availat	ormation ole	No infor availa		_
Inhalation:	No information available	-	No inf availat	ormation ole	No infor		-
Specific tar	get organ toxicity – si Specific		(STOT SE):	TOT SE): Target organ			Note
	•			No information available			Note
Oral:	No information avail			No information available -		-	
Dermal:	No information avail						
Inhalation:	No information avail	able	INO II	ntormation av	/allable	-	
Aspiration	hazard:	-					
Irritation ar	nd corrosion						
	Exposure tin	ne Sp	ecies	Evaluation	ı Me	ethod	Note
Skin corrosion/irritation:	-	-		-	-		No information available
Serious eye damage/irritation	-	-		-	-		No information available



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
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<u> </u>						
Sensitiza						
Dermal exposure	: No informatio	n available				
Inhalation exposure:	No informatio	n available				
Sympto	ms related to the p	hysical, chemic	al and toxicolog	ical characteristi	CS	
Oral exposure:	No informatio	n available				
Dermal exposure	: No informatio	n available				
Inhalation exposure:	No informatio	n available				
Eye exposure:	No informatio	n available				
Repeate	ed dose toxicity (su		onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	_
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-



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Trade name:	ne: NUCLEAR FAST RED (KERNECHTROT) REAGENT					_
Product code:	KR-OT-X**	KR-OT-X** Date of com		14 November	2022	Version: 4
Chronic inhalation	No information available	No information available	No information available	No information available	No informatio available	on -
Specific	target organ toxic	city – repeated e	exposure (STOT	RE):		
		Specific effects		Target orga	n	Note
Subacute oral	No info	rmation availabl	e No i	nformation availa	ble	-
Subacute derma	l No info	rmation availabl	e No i	nformation availa	ble	-
Subacute inhalat	ion No info	rmation availabl	e No i	nformation availa	ble	-
Subchronic oral	No info	rmation availabl	e No i	nformation availa	ble	-
Subchronic derm	nal No info	rmation availabl	e No i	nformation availa	ble	-
Subchronic inhal	ation No info	rmation availabl	e No i	nformation availa	ble	-
Chronic oral	No info	rmation available No in		nformation available		-
Chronic dermal	No info	rmation available No i		nformation available		-
Chronic inhalation	on No info	rmation available No in		nformation availa	ble	-
:						
CMR ef	fects (carcinogenio	ity; mutagenicit	y; reproductive	toxicity)		
Carcino	genicity:		No informati	on available		
Mutage	enicity <i>in-vitro</i> :		No information available			
Genoto	xicity:		No informati	on available		
Mutage	enicity <i>in-vivo</i> :		No informati	on available		
Germ c	ell mutagenicity:		No information available			
Reprod	uctive toxicity:		No informati	on available		
Summa propert	ry of evaluation ies:	of the CMR	No informati	on available		
11.2. Informa	ation on other haza	ards:				
11.2.1. Endocri	ne disrupting prop	perties:				
	wn endocrine disru ect human health.	upting propertie	S			
11.2.2. Other is	nformations:		•			
-						

SEC	TION	12. G	eneral	notes:
2EC	HON	12. G	enerai	notes

12.1. Toxicity



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Trade name:		NUCLEAR FAST RED (K	(ERNECHTROT) REAGENT	7
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

Acute (short-teritoxicity	m)	Dose	Exposure time	Species	Method	Eval	uation	N	ote
Fish		LC ₅₀	96 hours	No information available	-	No inforr available	mation	-	
Crustacea:		EC ₅₀	48 hours	No information available	-	No inforr available	nation	-	
Algae/aquatic pl	ants	IC ₅₀	72 hours	No information available	-	No inforr available	nation	_	
Other organisms	5	-	_	-	-	-		-	
Chronic (long-te toxicity	rm)	Dose	Exposure time	Species	Method	Eval	uation	N	ote
Fish		LC ₅₀	96 hours	No information available	-	No inforr available	nation	-	
Crustacea:		EC ₅₀	48 hours	No information available	-	No inforr available	nation	-	
Algae/aquatic pl	ants	IC ₅₀	72 hours	No information available	-	No inforr available	mation	-	
Other organisms	5	-	-	-			-		
12.2. Persiste Abiotic	degra								
	De	egradation h	alf-lives	Method		E۱	/aluation		Note
Marine water	No ir	nformation a	vailable	No information available		No information available		e	-
Fresh water	No ir	nformation a	vailable	No information available		No information available		e	-
Air	No ir	nformation a	vailable	No information av	No information available		No information available		-
Soil	No ir	nformation a	vailable	No information av	railable	No informa	ation availabl	e	-
Biodegi	radatio	on							
% Degradation		Time (days	()	Method	Eva	luation	N	ote	
No information No			nation	information availab	le No i	nformation le	No available	inforr	mation
12.3. Bioaccu	ımulat	ive potential							
Octano	l-wate	er partition co	pefficient (lo	g Kow)					
Value	Conce	entration	рН	°C Method	E	valuation	1	Note	



Trade name:

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

NUCLEAR FAST RED (KERNECHTROT) REAGENT

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Produc	t code	:	KR-O	Г-Х**	Date o	f compila	ation:	1.	4 Nc	ovember 202	2	Versior	ո: 4
						:		·					
No informa available			inform lable	ation -		_	No in availabl	formation le		lo informa vailable	tion	No ii available	nformation
				<u> </u>	<u> </u>	<u> </u>						i	
	Bioco	ncent	ration 1	factor (BCI	=)								
V	alue			Species		N	1ethod			Evaluation		No	te
No info		ı	No info	ormation ble		No info availabl			No ii avail	nformation able		No informat available	ion
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
	Clause	.:											
	Cnror	iic eco	otoxicit	y	Ev	nocuro					: : : : : : : :		
	Valu	е		Dose		posure time	S	Species		Method	E	valuation	Note
Chronic	toxicit	y on f	fish	LC ₅₀	No infor avail	mation able		rmation lable	ir	lo nformation vailable		ormation ilable	-
Chronic crustace				EC ₅₀	No infor avail	mation able		rmation lable	ir	lo nformation vailable		ormation ilable	-
				i.							i		
12.4.	Mobil	ity in	soil										
	Know	n or p	oredicte	ed distribu	tion in e	environm	ental c	ompartm	nents	:			
	No in	forma	ation av	ailable									
	Surfac	ce ten	sion:										
	Vá	alue		°C	С	oncentra	tion		Met	hod		Note	
	No inforn availa			ormation ailable		informat ailable	tion	No info availabl		ion	-		
	Λ -!			.: -									
	Adsor	•	/ deso										
Transpo	rt		/D coef enry's co		lo	og Kow	Ev	aporatio	n rate	e Meth	od	ſ	Note



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Trade name:		NUCLEAR FAST RED (KERNECHTROT) REAGE	NT
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

	1						1
Soil-wat	ter No	lable	information	No information available	No information available	No information available	-
Water-a	air No avai	lable	information	No information available	No information available	No information available	-
Soil-air	No avai	lable	information	No information available	No information available	No information available	-
12.5.	Results o	f PBT a	and vPvB asses	sment			
	No inforr	mation	available				
12.6.	Endocrin	e disru	ıpting properti	es			
	No know	n end	ocrine disrupti	ng properties that	affect the environm	nent.	
12.7.	Other ad	verse (effects				
	No inforr	mation	available				
SECTIO	N 13. Dis	oosal	consideration	S			
13.1.	Waste	treatm	ent methods				
13.1.1.			aging disposal				
	Submit Protect		sposal to the l	egal person autho	rized by the Ministry	y of Environmental a	and Nature
	FIOLECT	1011.					
13.1.2.	Waste	codes	/waste designa	tions according to	Low:		
	15 01 1 substar		ckaging that c	ontains residual h	azardous substances	s or is contaminated	l with hazardous
13.1.3.	Waste	treatm	ent – relevant	information:			
	No info	rmatio	on available				
13.1.4.	Sewage	e dispo	osal – relevant	information:			
	Waste	must r	not be dispose	d of into the sewa	ge system.		
13.1.5.	Other o	disposi	al recommend	ations:			



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Trade name:		NUCLEAR FAST REI	D (KERNECHTROT) REAGE	NT
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge. Do not dispose of in places where				
13.1.6.	Relevant Community provisions:					
		gement Act, Ordinance on Waste Management, Regulation on categories, f waste with waste catalog and list of hazardous waste				
SECTION	N 14. Transport information	on				
	Transporting/shipment by r					
UN num		Not subject to transport regulations				
UN prop	er shipping name:	-				
	rt hazard class(es):	-				
Packing		-				
-	nental hazards:	-				
Special p	precautions for user:	-				
	Transporting/shipment by r	rail (RID)				
UN num		Not subject to transport regulations				
UN prop	er shipping name:	-				
	rt hazard class(es):	-				
Packing	group:	-				
Environn	nental hazards:	-				
Special p	precautions for user:	-				
	Transporting/shipment by i	nland waterways (ADN)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing	group:	-				
Environn	nental hazards:	-				
Special p	precautions for user:	-				
	Transporting/shipment by s	sea (IMDG)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing	group:	-				
Environn	nental hazards:	Not subject to transport regulations				



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Trade name:		NUCLEAR FAST RED (K	ERNECHTROT) REAGENT	-	
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version:	4

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

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorisations and/or res	trictions of use			
	Authorisations:	-			
	Restrictions:	-			
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9: and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVIII);			



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT			IT
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

	National regulation:	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, Transport of Hazardous Substances Act
15.2.	Chemical safety assessment	
	None	

SECTIO	ON 16	6. Other information		
16.1.	Ind	ication of changes:	-	
16.2.	Abbreviations and acronyms:		ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative	
16.3.	Key literature references and source of data:		-	
16.4.	Classification and procedure 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)	
Classif	icatior	1	Classification procedure	
-				
16.5.	Rele	evant H statements (numl	per and full text)	
		H315	Causes skin irritation.	
	H:	H319	Causes serious eye irritation.	
		H335	May cause respiratory irritation.	
16.6.	Trai	ining advice:	-	
			** "X" in the product code marks different volumes (different packagings of the product)	
16.7. Further information:		ther 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



SAFETY DATA SHEET

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

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Trade name:		NUCLEAR FAST REI	O (KERNECHTROT) REAGE	NT
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

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Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECT	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	OXALIC AC	OXALIC ACID, 1% SOLUTION			
	Chemical name:	-				
	Catalogue number:	OKS1-OT-X	**			
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against		
	Uses:		For use	with special staining kits.		
	Uses advised against:		Only the	identified uses are advised.		
Reason why uses advised ag		sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2	2404039		
	e-mail of competent p	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone number					
	National Protection a	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:	Other information:		-		

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and cat	egory code:	Hazard statements*:		
	Not identified as hazardous	substance.	-		
2.1.2.	Additional information				
<u> </u>	-				
*For fu	ll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	OXALIC ACID, 1	1% SOLUTION		
	Identification number:	-			
	Authorization number: -				
	Hazard pictograms:	-			



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Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

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

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



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Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

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.		

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 me without protective equipment. Avoid breathing vapors and avoid of with skin and eyes. Do not smoke. Keep away from ignition source			
	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 equipme (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 protective barrier or barriers made of similar materials.		



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Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	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 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	ures to prevent aerosol and dust generation:			
	Measures to protect the environment:	asures to protect the environment:			
	Other measures:	Other measures:			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2	Conditions for safe storage, including any incon	npatibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight. Manufacturer's original packaging. Keep away from food and drink. Keep the containers tightly closed. 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.			
	Packaging materials:				
	Requirements for storage rooms and vessels:				
	Advices for storage equipment:				



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Trading name:					
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

SECTION 8. Exp	osure contr	ols/perso	nal pr	otection					
8.1 Contro	parameters								
Substai	nce	CA	S No		Occupational exposure limit values/short term values			Biological limit values	
			ppn	n	mg/m³		J		
			-		-	-			
		•		•		'			
Substance name	: -								
EC No: - CAS No: -									
DNEL	1								
				In	dust	trial			
Route of	Ac	Acute Acute		Acute		Chronic			Chronic
exposure:	effect	effect local effect sys		ct systemi	ic effect local			effect systemic	
Oral	-	-			-		-		
Inhalation	-		-			-			
Dermal	-		-		-		-		
Critical physical	parameters:	solubility,	flamm	ability, co	rrosi	vity:	-		
				Co	onsu	mer			
Route of	А	cute		Acute			Chronic		Chronic
exposure:	effe	ct local	effe	ct system	ic	effect local			effect systemic
Oral	-		-		-		-	•	
Inhalation	-		-		-				
Dermal	-		-			-			
PNEC									
Environmental protection target					IEC				
Fresh water					no	inform	nation available		
Freshwater sedi	Freshwater sediments				no information available				
Marine water					no	inform	nation available		
Marine sedimen	ts				no information available				



Food chain

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

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Trading name:					
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

no information available

Microorganisms in sewage treatment			no information available			
Soil (agric	:ultural)		no information available			
Air			no information available			
8.2	Exposure controls					
8.2.1.	Appropriate engineering controls					
0.2.1.	Appropriate engineering controls		Heatha product in well ventilated rooms. Heaparconal			
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:		In accordance with Section 7.			
	Organisational measures to prevenexposure:	t	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent expo	osure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment	nt				
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 cove entire face in case of higher levels of concentration in air.				
8.2.2.2.	Skin 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:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemic (Viton, 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) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording 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			



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Trading name:		OXALIC ACID, 1% S	SOLUTION		
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

Colco Odo Melt Boili poin Flam Love Flasl Auto Deco pH: Kine Solu Parti	sical state: our: our/odour threshold: ting point / freezing point:	Value liquid purple brown characteristic/no information	Method No information available No information available
Colco Odo Melt Boili poin Flam Love Flasl Auto Decc pH: Kine Solu Parti	our: our/odour threshold:	purple brown	
Odo Melt Boili poin Flam Love Flasl Auto Deco pH: Kine Solu Parti	our/odour threshold:		No information available
Melt Boili poin Flam Love Flash Auto Deco pH: Kine Solu Parti		characteristic/no information	
Boili poin Flam Love Flash Auto Deco pH: Kine Solu	ting point / freezing point:	available	No information available
poin Flam Love Flash Auto Decc pH: Kine Solu	9 9	No information available	No information available
Love Flash Auto Decc pH: Kine Solu	ing point or initial boiling nt and boiling range:	No information available	No information available
Flasi Auto Deco pH: Kine Solu Parti	nmability:	No information available	No information available
Auto Deco pH: Kine Solu Parti	er and upper explosion limit:	No information available	No information available
Decc pH: Kine Solu Parti	h point:	No information available	No information available
pH: Kine Solu Parti	o-ignition temperature:	No information available	No information available
Kine Solu Parti	composition temperature:	No information available	No information available
Solu Parti		No information available	No information available
Parti	ematic viscosity:	No information available	No information available
	ubility:	No information available	No information available
	tition coefficient n- anol/water (log value):	No information available	No information available
Vapo	our pressure:	No information available	No information available
Den	nsity and/or relative density:	No information available	No information available
Rela	ative vapour density:	No information available	No information available
Parti	ticle characteristics:	No information available	No information available

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



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Trading name:		OXALIC ACID, 1% SOLUTION			
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	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 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

	exicological information on hazard classes		n Regulatio	n (EC) No 1272/20	nn8		
Acute t		us acilitea i	Tr Regulatio	11 (20) 140 1272/20			
Route of exposure:	Method	Species		e Dose LD ₅₀ /LC ₅₀ r ATE _{mixture}	Exposure	time	Results
Oral:	No information available	_	No infor	mation available	_		_
Dermal:	No information available	ation - N		o information available			-
Inhalation:	No information available	-	No infor	mation available	-		-
Specific	c target organ toxicity -	- single expo	sure (STOT	SE):			
	Specific	effects		Target organ		Note	
Oral:	No information av	/ailable	No information available				
Dermal:	No information a	/ailable	No information available			-	
Inhalation:	No information av	vailable	No information available -				
Aspirat	ion hazard:	N	o informatio	on available.			
Irritatio	n and corrosion						
	Exposure t	ime	Species	Evaluation	Method		Note
Skin corrosion/irritati	ion:	-		-	–	-	
Serious eye damage/irritatio	on -	-		-	_	-	
Sensitiz	zation						
Skin sensitizatio	n: No infor	mation availa	able.				
Respiratory sens	sitization: No infor	mation availa	able.				



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Trading name:		OXALIC ACID, 1% SOLUTION							
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4				

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



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Trading name:		OXALIC ACID, 1% SOLUTION							
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4				

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	-			
CNAD (C.). (1					
	carcinogenicity; mutagenicit	<u> </u>	<u>-</u>				
Carcinogenici			able data, the classification of				
Mutagenicity	ın vitro:	Based on available data, the classification criteria are not met.					
Genotoxicity:			able data, the classification c				
Mutagenicity			able data, the classification c				
Germ cell mu	tagenicity:	Based on avail	Based on available data, the classification criteria are not met.				
Reproductive	toxicity:	Based on available data, the classification criteria are not met.					
Summary of properties:	evaluation of the CI	MR Based on met.	available data, the classifica	ation criteria are not			
1							
11.2 Information o	n other hazards:						
11.2.1. Endocrine dis	rupting properties:						
components disrupting pr Article 57(f) regulation (E	ce/mixture does not cont considered to have endocr operties according to REA or Commission Delega J) 2017/2100 or Commiss J) 2018/605 at levels of 0.1%	ine CH ted ion					
11.2.2. Other informa	ations:						
<u> </u>							

SECTION 12. Ecological information									
12.1 Toxicity									
Acute (short-term) 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:	21 Dec 2022	Version:	4				

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

12.2 Persistence and degradability

Abiotic degradation

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

_					
R	$i \cap A$	ea	rad	1	inn
D	IOU	cu	ıau	аи	UI

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



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Trading	name:				0	XALIC	ACID,	1% SOLUT	ION			
Product	t code:	OKS1	1-OT-X**		Date	of co	mpilati	on: 21 D	ec 2022	,	Version:	4
		I										
12.3	Bioaccum	nulative	potential									
	Octanol-	water pa	rtition coef	ficient (log Kow)						
Value	e Co	oncentra	ition p	рΗ	°C	М	ethod	Eval	uation		Note	
_	-		-		-	_		-		-		
	Rioconce	ntration	factor (BCF)								
Va	alue	Huduon	Species	,		Method		Evalua	tion		Note	
No infor		No	inforn	nation	No info			No informa				
available		availa			availab			available		-		
	Chronic e	ecotoxici	ty			***		1				
	Value		Dose		osure ime	Sp	ecies	Method	Evalu	ation	Note	
Chronic	toxicity o	n fish	LC ₅₀	No infor availa	mation able	No infor availa	mation able	No information available	No inform availab		-	
Chronia	+ a vi ai + v a			No		No		No	No			
	toxicity or a (<i>Daphni</i>		EC ₅₀	infor availa	mation	infor availa	mation	information available	inform availab		-	
				avalle	аріе	avalle	аріе	avallable	avallab	ne		
12.4	Mobility	in soil										
			ed distribut	ion in e	environm	nental (compart	ments:				
	No inforr	·····					.					
	Surface t	ension:										
	Value		°C	C	oncentra	ation		Method			Note	
	No informati available		o formation vailable		informa ailable	ition	No inf availal	ormation ole	-			
									i			



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Trading name:		OXALIC ACID, 1%	SOLUTION		
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Transpo	A/D coefficient Henry's constant	log Kow	log Kow Evaporation rate	Method	Note
Soil-wa ⁻	ter No information available	No information available	No information available	No information available	-
Water-a	No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5	Results of PBT and vPvB asse				
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulation		
12.6.	Endocrine disrupting propert	ies			
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulation		
12.7	Other adverse effects				
	No further relevant informati	on available.			
SECTIO	N 12 Dispesal sensideration				
13.1	N 13. Disposal consideration Waste treatment methods	is			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	ıl:			
	Submit for disposal to the Protection.	egal person autho	rized by the Ministry of	Environmental a	and Nature
13.1.2.	Waste codes/waste designate	ations according to	o Law:		
	15 01 10*: Packaging that c			is contaminated	l with hazardous
13.1.3.	Waste treatment – relevant				



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Trading name:		SOLUTION			
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	No information available					
13.1.4.	Sewage disposal – relevant	information:				
	Waste must not be dispose	ed of into the sewage system.				
13.1.5.	Other disposal recommend	ations:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.					
13.1.6.	Relevant Community provis	sions:				
	Disposal must be made acc	ording to official regulations.				
SECTION	N 14. Transport information					
	Transporting/shipment by ro	ad (ADR)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpoi	t hazard class(es):	-				
Packing	group:	-				
Environn	nentally hazardous:	-				
Special p	precautions for user:	-				
	Transporting/shipment by rai	il (RID)				
UN num	ber:	Not subject to transport regulations				
UN proper shipping name:		-				
Transpoi	t hazard class(es):	-				
Packing	group:	-				
Environn	nentally hazardous:	-				
Special p	precautions for user:	-				
	Inland waterway transport (A	DN)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpoi	t hazard class(es):	-				
Packing	group:	-				
Environn	nentally hazardous:	-				
Special p	precautions for user:	-				
	Transporting/shipment by se	a (IMDG)				
UN num	ber:	Not subject to transport regulations				



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Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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 (ICA	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: -	

SECTI	TION 15. Regulatory information					
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorization and/or rest	trictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);				



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Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)					
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2	Chemical safety assessment					
	None					

SECTION	ON 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronym	ADR: Accord relatif au transport international des marchandises dangereuses proute (European Agreement Concerning the International Carriage of Dangero Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemical EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references an source of data:	-			
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classif	ication	Classification procedure			
-		-			
16.5.	Relevant H statements (nur	nber and full text)			
	H: 315	Causes skin irritation			
	319	Causes serious eye irritation.			
	335	May cause respiratory irritation.			
16.6.	Training advice:	-			
16.7.	** "X" in the product code marks different volumes (different packag the product)				



SAFETY DATA SHEET

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

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Trading name:					
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION					
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

SECTI	ON 1: Identification of	the subst	ance/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Trading name:	POTASS	SIUM PERMANG	SANATE, 0.5% SOLUTION		
	Chemical name:	-				
	Catalogue number:	KP05-O	T-X**			
1.2.	Relevant identified us	es of the s	substance or mix	xture and uses advised against		
	Uses:		For use with	special staining kits.		
	Uses advised against:		Only the ider	ntified uses are advised.		
	Reason why uses advi	sed	The product is intended for use only as an <i>in vitro</i> diagnostic med device, registered at the Agency for Medicinal Products and Medi Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplie	r of the sat	fety data sheet			
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb +385 1 2409997			
	Telephone number:					
	Fax no.:		+385 1 2404039			
	e-mail of competent	oerson:	msds@biogn	msds@biognost.hr		
	National contact:		-			
1.4.	Emergency telephone	number				
	National Protection a	nd Rescue	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	CTION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regul	ation (EC) No 12	272/2008 (CLP)				
	Hazard class and categor	y code:	Hazard statements*:				
	Aquatic Chronic 3		H412				
2.1.2.	Additional information						
	-						
*For fu	ll text of Hazard- and EU Hazard-st	atements: see S	ection 16				
2.2.	Label elements						
	Product identification:	POTASSIUM	PERMANGANATE, 0.5% SOLUTION				
	Identification number: -						
	Authorization no.: -						
	Hazard pictograms:	-					



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version: 6	

	Signal word:	ignal word: -					
	Hazard statements:	H412 Harmful to aquatic life with long lasting effects.					
	Precautionary statements:	P273 Avoid release to the environment P501 Dispose of contents/container in accordance with local regulations.					
	Further information:	-					
2.3.	Other hazards						
	Endocrine Disrupting Proper	ties:					
	No known endocrine disrupting properties						
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.						

SECTION 3. 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	-	0.5 %	potassium permanganate	Oxid. Solid 2; H272 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410			

SECTIO	ECTION 4. First aid measures					
4.1.	Description of first aid measures					
	General notes:		-			
	Following inhalation:		No information available			
	Following skin contact:		No information available			
	Following eye contact:		No information available			
	Following ingestion:		No information available			
	Self-protection of the first aide	er:	Treat symptomatically.			
4.2.	Most important symptoms and	d effe	ects, both acute and delayed			
	Following inhalation:	No ir	nformation available			
	Following skin contact:	No ir	nformation available			
	Following eye contact:	No ir	nformation available			
	Following ingestion:	No information available				
4.3.	Indication of any immediate medical attention and special treatment needed					
	-					

SECTION 5 Firefighting measures



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version: 6	

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

SECTIO	ON 6. Accidental release meas	ures		
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency 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 cor	hods and material for containment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	-		
6.4.	Reference to other sections			



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION					
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version: 6		

See Section 7 for information about secure handling.

See Section 8 for information about personal protective equipment.

See Section 13 for information about containment.

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

SECTIO	SECTION 8. Exposure controls/personal protection							
8.1.	Control parameters							
	Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values			
			ppm	mg/m³	_			



										Page 5 of 16
Trading nar	me:		P	OTAS	SSIUM	PERMAN	GANA	ATE, 0.5	% SOLU	ΓΙΟΝ
Product cod	de:	KP05-O	KP05-OT-X** Date of compilation: 21 Dec 2		ec 2022	Version: 6				
			1							
Potassium p	ermang	anate	7722-6	54-7		-		5	No infor	mation available
Substance name:	-									
EC No:	-		CAS No:	-						
DNEL										
					Inc	lustrial				
Route of		/	Acute		Acut	е		Chro	nic	Chronic
exposure:		effe	ect local	е	ffect sys	temic		effect	local	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			_			-
Critical physi	ical para	ameters:	solubility, fla	mmab	ility, cor	rosivity:		-		
					Co	nsumer	1			
Route of			Acute	Acut			Chronic			Chronic
exposure:		effe	ect local	е	ffect sys	temic	effect local		local	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC										
Environment	tal prote	ection tar	get			PNEC			•	
Fresh water						No information available No information available				
Freshwater s		its								
Marine wate						No information available				
Marine sedir	nents					No information available				
	eme in a	2011222	roatmont			No information available				
Microorgani Soil (agricult		sewage tr	eatment			No information available No information available				
Air	.urai)					No information available				
All						INO IIIIOII	Hatioi	i availab	ie	
8.2.	Exposu	re contro	ıls							
	•		jineering cor	ntrols						
			ure related		Har d		11		ala '	las managarat agricultura
	measur		vent exposu	ire		e the product in well ventilated rooms. Use personal protective uipment. Do not eat, drink or smoke in the workspace.				
	Structu exposu		ures to preve	ent	No info	rmation av	/ailable	e		



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION								
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version: 6					

	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prexposure:	event	ent Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equi	pment					
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection						
			tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374.				
	Hand protection:		Glove material: nitrile rubber				
			Glove thickness: ≥0.50 mm				
			Break through time: >480 min				
	Other skin protection:		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:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.					
8.2.2.4.	Thermal hazards:	No inf	ormation available				
8.2.3.	Environmental exposure	controls					
	Substance/mixture relate measures to prevent exp		See Section 6				
	Structural measures to prescribe 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					
	Colour:	dark purple	No information available					
	Odour/odour threshold:	no odor/no information available	No information available					
	Melting point / freezing point:	No information available	No information available					
	Boiling point or initial boiling point and boiling range:	No information available	No information available					



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

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

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



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Trading name:		POTASSII	JM PERMAN	PERMANGANATE, 0.5% SOLUTION				
Product code: KP05-OT-X**		Da	Date of compilation:		Dec 2022	Version: 6		
		:		:		1		
Inhalation	No informati	on -		LC ₅₀	-	_		
exposure:	available			- 50				
Specific	target organ toxicit	, , ,	osure (STOT SE)					
		ecific effects		Target org		Note		
Oral exposure:		ation available		mation avai		_		
Dermal exposure:	No informa	ation available	No infor	mation avai	lable	_		
Inhalation exposu	re: No informa	ation available	No infor	mation avai	lable	-		
Respirato	ory irritation:	N	o information a	vailable				
Irritation	and corrosion							
	Exposure tim	ne Speci	es Ev	aluation	Method	Note		
Skin irritation:	-	-	-		-	-		
Eye irritation:	-	-	-		-	-		
Sensitiza	tion							
Dermal exposure:	No information	available						
Inhalation	No information	v available						
exposure:	NO IIIIOIIIIation	i avaliable						
Symptor	ns related to the pl	hysical, chemic	al and toxicolog	gical charact	eristics			
Oral exposure:	No information	available						
Dermal exposure:	No information	available						
Inhalation exposure:	No information	available						
Eye exposure:	No information	available						
-								
Repeated	d dose toxicity (sub	pacute, subchro	onic, chronic)					
	Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No information available	No information available	No information available	No information	availahle	ation -		
Subacute dermal	No information available	No information available	No information available	No information n availabl	available	ation _		



Subacute

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No

informatio

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No information

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information

No

No

information

No information

Mutagenicity in-vivo:

inhalation	availa	ble	available	_	lable	n available	available	Э	-
Subchronic oral	No i	information ble	No information available		rmation lable	No informatio n available	No infor		-
Subchronic dermal	lermal available Info		No information available			No informatio n available	No infor		-
Subchronic inhalation			No information available	information inform		No informatio n available	No infor		-
Chronic oral	Chronic oral No information available		No information available			No informatio n available	No information available		-
Chronic dermal	No i availa	information ble	No information available	ormation informat		No informatio n available	No information available		-
Chronic inhalation	halation available information into		info	rmation lable	No informatio n available	No information available		-	
c :c					(CTOT	DE)			
Specific	target	1	y – repeated e	xposu	ire (STOT				Nata
Subacute oral		-	ecific effects		No infor	Target organ mation availab	No.	_	Note
Subacute dermal	 		ation available			mation availab		_	
Subacute inhalat			tion available		No information available			_	
Subchronic oral			ation available			No information available		-	
Subchronic derm	nal	No informa	ation available		No information available		ole	-	
Subchronic inhal	ation	No informa	ation available		No information available		ole	-	
Chronic oral		No informa	ation available		No information available		ole	_	
Chronic dermal		No informa	ation available		No information available		ole	-	
Chronic inhalatio	n	No informa	ation available		No infor	mation availab	ole	-	
CMR eff	fects (ca	arcinogenicit	y, mutagenicit	v, repi	roductive	toxicitv)			
Carcino				<u> </u>	on availab				
Mutage				No information available					
Genoto	·····			No information available					

No information available



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	Germ cell mutagenicity: No i	nformation available				
	Reproductive toxicity: No i	nformation available				
	Summary of evaluation of the CMR pro	pperties: -				
11.2	Information on other hazards:					
11.2.1.	Endocrine disrupting properties:					
	The substance/mixture does no contain components considered to have endocrine disrupting properties according to REACH Article 57(f) of Commission Delegated regulation (EU 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% of higher.	o es or - J) - n				
11.2.2.	Other informations:					
	-					

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	-	1
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-
Microorganisms	LC ₅₀	72 hours	-	-	-	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	-	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-



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alue	Dose	Exposure time	Spe	ecies	Method	Evalua	ation	Note
city on fish	LC ₅₀	No information available			No information available			_
-	EC ₅₀	No information available			No information available			-
bility in soil								
own or pred	icted distributi	on in environme	ental c	ompart	ments:			
information	available							
face tensior	1:							
Value	°C	Concentra	ition		Method			Note
Lintormation		ion No information available		No information available		-		
A/D co	oefficient	log Kow		Evapora	ation rate	Method		Note
No	information			o inform	ation	No informatio	n -	
available		available	ava	ailable		available		
No available	information	No information	n No	ailable o inform ailable	ation	available No informatio available	n -	
	information face tension Value ormation illable sorption / de A/D ce Henry's	city on fish LC50 city on paphnia) bility in soil own or predicted distribution available face tension: Value ormation available face tension: Alphoioride available sorption / desorption Alphoioride available sorption / desorption Alphoioride available	city on fish City on fish City on paphnia Comation paphnia Commation paphnia No information paphnia	city on fish EC ₅₀ No Information finformation available Cinformation available Face tension: Value Concentration No Information finformation information available Cormation A/D coefficient Henry's constant Company fine fine fine fine fine fine finite fi	city on fish City on fish City on fish City on paphnia No information available Concentration No information available Corption / desorption A/D coefficient Henry's constant Concentration No information available Concentration No information available	time Species Method time No No information available available city on Paphnia PC Concentration available sorption No information available No information available comparison Method comparison available comparison available comparison Method comparison available comparison available	city on fish	time Species Method Evaluation Comparison Comparison

12.6. Endocrine disrupting properties



Trading name:

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	according		ot contain components considere f) or Commission Delegated regulates of 0.1% or higher.					
12.7.	Other ad	verse effects						
	No inforr	mation available						
SECTION	N 13. Dis _l	posal considerations						
13.1.		treatment methods						
13.1.1.	Produc	t/Packaging disposal:						
	Submit Protect		gal person authorized by the Min	istry of Environmen	ital and Nature			
13.1.2.	Waste	codes/waste designati	ons according to Law:					
	No information available							
13.1.3.	Waste treatment – relevant information:							
	No information available							
13.1.4.	Sewage	e disposal – relevant in	formation:					
	Waste i	must not be disposed	of into the sewage system.					
13.1.5.	Other disposal recommendations:							
	authori the pac	zed by the ministry in	ct's remains into the sewage syste charge. Do not dispose of the pa rs authorized by the ministry in c	ackaging into the se	ewage system. Submit			
13.1.6.	Relevar	nt Community provisio	ns:					
	-							
SECTION	N 14. Trai	nsport information						
	-	ting/shipment by road						
UN num	ber:		3082	ubstanco liquid	s (potassium			
UN prop	er shippir	ng name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)					
Transpoi	rt hazard	class(es):	9					



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Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by	rail (RID)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport	(ADN)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by	sea (IMDG)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by	air (ICAO-TI/IATA-DGR)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-



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Trading name:	P	OTASSIUM PERMANGANA	ATE, 0.5% SOLUTI	ON	
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	These substances when carried in single or combination packagings containing a net
Further information:	quantitiy per single or inner packaging of 5 l or less for liquids or having a net mass per
	single or inner packaging of 5 kg or less for solids, are not subject to classification.

SECTIO	ON 15. Regulatory informa	tion				
15.1.	Safety, health and environ	mental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or restr	ictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16				
		December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);				
	Information according 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 assessmer	nt				
	None					

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



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16.2.	Abbreviations	and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative		
16.3.	16.3. Key literature references and source of data:		-		
16.4.	16.4. Classification and procedure use 1272/2008 (CLP)		ed to derive the classification for mixture according to Regulation (EC)		
Classifi	cation	Cla	Classification procedure		
-	:	-			
16.5.	Relevant H sta	tements (number	and full text)		
	272		May intensify fire; oxidiser.		
	302		Harmful if swallowed.		
	H: 400		ery toxic to aquatic life.		
	410		ery toxic to aquatic life with long lasting effects.		
	413 Ma		May cause long lasting harmful effects to aquatic life.		
16.6.	16.6. Training advice: -				
			"X" in the product code marks different volumes (different packagings of e product)		
16.7.	16.7. Further information: We inst		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.		

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Exposure scenario resulting to Chemical safety assessment

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Product code:	SA-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

1.1	Product identifier	the substant	e/illixture	and of the company/undertaking	
	Trading name:	SILVER AMI	MONIA SC	DLUTION	
	Chemical name:	-			
	Catalogue number:	SA-OT-X**	SA-OT-X**		
1.2	Relevant identified us	es of the subs	s of the substance or mixture 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 advi	vised against: medical device, registered at the		duct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes.	
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997 +385 1 2404039		
	Telefax.:				
	e-mail of competent p	person:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection a	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	CTION 2. Hazards identification			
2.1	Classification of the substance or mixture			
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)	
	Hazard class and category code: Hazard statements*:			
	Aquatic Chronic 3		H412	
2.1.2.	Additional information			
	_			
*For ful	I text of Hazard- and EU Hazard-	statements: see S	ECTION 16	
2.2	Label elements			
	Product identification:	SILVER AMMON	IIA SOLUTION	
	Identification number:	-		
	Authorization number:	-		
	Hazard pictograms:	-		



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Trading name:		SILVER AMMONIA	SOLUTION	<u> </u>	
Product code:	SA-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

	Signal word:	-
	Hazard statements:	H412 Harmful to aquatic life with long lasting effects.
	Precautionary statements:	P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local regulations.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	erties:
	No known endocrine disrupt	ing properties
	Results of PBT and vPvB as PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

SECTION 3. Con	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	-	< 1 %	ammonia	Skin Corr. 1B; H314 Aquatic Acute 1; H400	

SECT	SECTION 4. First aid measures			
4.1	Description of first aid measu	ires		
	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.		



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

SECTIO	N 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 su	ıbstance 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 o	compressed air breathing apparatus and fireproof clothing.
5.4	Additional information	
	Do not contaminate the environment	ent with extinguishing media.

SECTIO	ON 6. Accidental release measur	res
6.1	Personal precautions, protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
	Protective equipment:	Use personal protective equipment (see Section 8).
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.
	Emergency procedures:	Mark the area using proper signs.
6.1.2.	For emergency responders:	
	Use protective equipment; in case (see Section 8).	se of inadequate ventilation use adequate airways protective equipment
6.2	Environmental precautions:	



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Trading name:		SILVER AMMONIA S	OLUTION		
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	Do not dispose of in sewage, Protection and Rescue Direct	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.
6.3	Methods and material for cor	ntainment and cleaning up
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.
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 in	formation.

SECTIO	ON 7. Handling and storage		
7.1	Precautions for safe handling		
7.1.1.	Protection measures		
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat.
	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. The	oroughly was	sh hands after work and before eating.
7.2	Conditions for safe storage, including any incom	patibilities	
	Technical measures and storage conditions:		ghtly closed and upright set containers at ures ranging from +2 to +8 °C.
	Packaging materials:	Manufactu containers	urer's original packaging. Avoid metal s.
	Requirements for storage rooms and vessels:	Keep away	y from food and drink. Keep the containers sed.
	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.



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

						•			
SECTION 8. Expos	ure contr	ols/perso	nal pr	otect	ion				
8.1 Control pa	arameters								
Substance	•	CA	S No			values/short term values		Biological I	limit values
					р	pm	mg/m³		
			-	-		-			
Substance name:	-								
EC No:	-	CAS No	:	-					
DNEL									
					Ind	ustrial			
Route of	Acι			Acute			Chronic	С	hronic
exposure:	effect	local	effe	ct syst	temic		effect local	effec	t systemic
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-			-		-	
Critical physical par	rameters: s	solubility,	flamm	ability	, corr	osivity:	-		
					Con	sumer			
Route of	Acı			Acute			Chronic		hronic
exposure:	effect	local	effe	ct sys	temic		effect local	effec	t systemic
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-			-			
PNEC									
Environmental prot	tection tar	get			1	PNEC			
Fresh water						no inform	nation available		
Freshwater sedime	nts					no inform	nation available		
Marine water						no inform	nation available		
Marine sediments						no inform	nation available		



Food chain

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no information available

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	··			
Microorga	anisms in sewage treatment		no information available	
Soil (agric	cultural)		no information available	
Air			no information available	
8.2	Exposure controls			
8.2.1.	Appropriate engineering contro	ls		
	Substance/mixture related measure prevent exposure during identification		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 pre- exposure:	vent	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent e	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	nt		
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.	
8.2.2.2.	Skin protection	i		
	Hand protection:	Protect	tive nitrile gloves, >0.11 mm thick (EN 374).	
	Other skin protection:	:	nntistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 340) and shoes that cover the entire foot.	
8.2.2.3.	Respiratory protection:		quired under normal conditions of use. Use suitable tory protective device when high concentrations are t.	
8.2.2.4.	Thermal hazards:	No info	ormation available	
8.2.3.	Environmental exposure control	S		
	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	



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

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



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SECTION 11. Toxico	ological info	rmation					
11.1 Information	on hazard o	lasses as defined in	Regulation	(EC) No 127	2/2008		
Acute toxic	ity:			;			
Route of exposure:	Method	Species		₅₀ /LC ₅₀ or E _{mix}	Exposure time		Results
Oral:	-	No information available	-		No information available		-
Dermal:	-	No information available	-	-	No information	n	-
Inhalation:	-	No information available		- No information available		n	-
Specific tar	get organ to	xicity – single expos	ure (STOT S	E):			
	S	pecific effects		Target o	rgan		Note
Oral:	No informa	tion available	No ir	No information available		-	
Dermal:	No informa	tion available	No ir	No information available		-	
Inhalation:	No informa	No information available		nformation a	vailable	-	
Aspiration h		No	information	available.			
	Ехро	sure time	Species	Evaluatio	on Method		Note
Skin corrosion/irritation:	-	-		-	-	-	
Serious eye damage/irritation	-	-		-	-	-	
Sensitizatio	n						
Skin sensitization:	_						
Respiratory sensitiza	tion: -						
Symptoms	related to th	e physical, chemical	and toxicol	ogical chara	cteristics		
Oral exposure:	No inforr	nation available.				_	
Dermal exposure:	No inforr	nation available.					
Inhalation exposure:	No inforr	nation available.					
Eye exposure:	Na infor	nation available.					



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Trading name:		SILVER AMMONIA S	OLUTION		
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Кереате	ed dose toxicity (sul	Tacute, Subcilio	Triic, Criroriic)			
	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 toxici		-			N1 - 1
Subacute oral	No inform	Specific effectation available	πS	Target o		Note
Subacute dermal		ation available		No information		-
Subacute inhalat		ation available		No information		_
Subchronic oral		ation available		No information		_
Subchronic derm		ation available		No information		_
Subchronic inhal	ation No inform	ation available		No information	a available	_



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Chronic	oral	No information available	No info	rmation available	-
Chronic	dermal	No information available	No info	rmation available	-
Chronic	inhalation	No information available	No info	rmation available	-
	CMR effects	(carcinogenicity; mutagenicity; re	productive toxicity)		
	Carcinogenio	ity:	No information available.		
	Mutagenicity	ı in vitro:	No information available.		
	Genotoxicity	•	No information available.		
	Mutagenicity	ı in vivo:	No information available.		
	Germ cell mutagenicity:		No information available.		
	Reproductive	e toxicity:	No information available.		
	Summary of properties:	of evaluation of the CMR	No information avai	lable.	
11.2.	Information (on other hazards:			
11.2.1.	Endocrine di	srupting properties:			
	No known e that affect hu	endocrine disrupting properties uman health.			
11.2.2.	Other inform	ations:			
	-				

SECTION 12. Ecologi	cal informat	ion				
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



Persistence and degradability

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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	-	-	-	-	-	-

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

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

Oc	tanol-water partition	coefficier	nt (log Kow	<i>'</i>)		
Value	Concentration	рН	°C	Method	Evaluation	Note
	-	-	-	-	-	-



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Trading name:		SILVER AMMONIA SO			
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Value			Species		N	/lethod		E۱	⁄aluatio	luation		Note
No information available		No information available		ation	No information available			No information available		-		
	Chronic e	ecotoxic	ity									
	Value		Dose		osure ime	Spec	ies	Meth	od	Eval	uation	Note
Chronic	c toxicity o	n fish	LC ₅₀	No infori availa	mation able	No informa availab		No informa availab		No inforn availa	nation ble	-
	c toxicity o ea (<i>Daphn</i> i		EC ₅₀	No		No informa availab		No informa availab		No inforn availa	nation ble	-
12.4	Mobility	in soil										
	Known o	r predic	ted distributi	on in e	environm	ental co	mpart	ments:				
	Known o	r predic		on in e	environm	ental co	mpart	ments:				
	Known o No inform	r predic	available				mparti		ıd			Note
	Known o	r predicemation a ension:		Co	oncentra informat ilable	tion tion I		Metho		-		Note
	Known o No inform Surface t Value No informati	r predicemation a ension:	°C lo nformation	Co	oncentra informat	tion tion I	No infe	Metho		-		Note
	Known o No inform Surface t Value No informati	r predicemation and ension:	°C lo nformation vailable	Co	oncentra informat	tion tion I	No infe	Metho		-		Note
Transpo	Known o No inform Surface t Value No informati available Adsorption	r predicemation and ension in an and ension	°C lo nformation vailable	No ava	oncentra informat	tion tion I	No info	Metho	1	Method	3	Note
	Known o No inform Surface t Value No informati available Adsorption	on / des	°C No Information vailable sorption efficient	No ava	oncentra informat ilable og Kow	tion tion I	No info	Metho ormation ole on rate	1	Method		
Transpo	Known o No inform Surface t Value No informati available Adsorption ort No available No informati available	on / des	°C lo nformation vailable sorption efficient constant	No ava	oncentra informat ilable og Kow nformatic able	tion tion I	No info	Metho ormation ole on rate	No ir	Methoo nformat able	ion	



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Trading name:		SILVER AMMONIA SOLUTION					
Product code:		SA-OT-X**	Date of compilation:	21 Dec 2022	Version:	(
			s no components considered to lad very bioaccumulative (vPvB) at			and	
12.6.	Endocrine	e disrupting properties					
	according		t contain components considered) or Commission Delegated reguels els of 0.1% or higher.				
12.7.	Other adv	verse effects					
	No inform	nation available					
SECTIO	N 13. Disp	osal considerations					
13.1	Waste t	reatment methods					
13.1.1.	Product	/Packaging disposal:					
	Submit Protecti		al person authorized by the Mini	stry of Environmenta	al and Nature		
13.1.2.	Waste c	odes/waste designatic	ons according to Law:				
	Packagi	ng that contains residu	ual hazardous substances or is co	ontaminated with ha	zardous substar	ıces	
13.1.3.	Waste t	reatment – relevant inf	formation:				
	No info	rmation available					
13.1.4.	Sewage	disposal – relevant inf	formation:				
	Waste n	nust not be disposed o	of into the sewage system.				
13.1.5.	Other d	isposal recommendation	ons:				
	Do not	dispose of the product	t's remains into the sewage syste	em. Submit the rema	ins to the collec	tors	

SECTION 14 TRANSPORT INFORMATION

Relevant Community provisions:

13.1.6.

Transporting/shipment by road (ADR)
UN number:	3082

the packaging to the collectors authorized by the ministry in charge.

authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit



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UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (RI	ID)
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:	-
Inland waterway transport (ADN)	
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	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 (ICA	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:	-



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Further information: Packages smaller than or equal to 5 kg / L, not dangerous goods of Class 9.

	ON 15. Regulatory informa						
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations						
	Authorization and/or rest	rictions of use					
	Authorizations:	-					
	Restrictions:	-					
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);					
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-					
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act					
15.2	Chemical safety assessme	ent					
	None						

SECTION 16. Other information	
16.1 Indication of changes:	-



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16.2	Abbreviations and acronyms:		ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative				
16.3.	1 -	literature references and rce of data:	-				
16.4.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)				
Classifi	catio	า	Classification procedure				
_			-				
16.5.	Rel	evant H statements (numl	per and full text)				
		272	May intensify fire; oxidiser.				
		314	Causes severe skin burns and eye damage.				
	H:	400	Very toxic to aquatic life.				
		410	Very toxic to aquatic life with long lasting effects.				
		412	Harmful to aquatic life with long lasting effects				
16.6.	Trai	ining 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:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

SECTI	ION 1. Identification of	the substa	nce/mixture a	nd of the company/undertaking	
1.1.	Product identifier				
	Trading name:	SODIUM	1 THIOSULFATE,	, 5% SOLUTION	
	Chemical name:	-			
	Catalogue number:	NT5-OT	DT-X**		
1.2.	Relevant identified us	es of the s	ubstance or mix	cture and uses advised against	
	Uses:		For use with s	special staining kits.	
	Uses advised against:		Only the iden	tified uses are advised.	
Reason why uses a against:		sed	device, regist	s intended for use only as an <i>in vitro</i> diagnostic medical ered at the Agency for Medicinal Products and Medical there is no reason to use it for other purposes	
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.	BioGnost Ltd.	
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent	person:	msds@biogno	ost.hr_	
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection a	nd Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regula	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category	y code:	Hazard statements*:			
	Not identified as hazardous subs	Not identified as hazardous substance				
2.1.2.	Additional information					
	-					
*For fu	Ill text of Hazard- and EU Hazard-st	atements: see Sect	on 16			
2.2.	Label elements					
	Product identification:	SODIUM THIOSI	ILFATE, 5% SOLUTION			
	Identification number: -					
	Authorization no.:	-				
	Hazard pictograms:	-				



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

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

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

SECTIO	CTION 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 aide	r: Treat symptomatically.			
4.2.	Most important symptoms and	l effects, both acute and delayed			
		According to our findings, chemical, physical and toxicological properties of he substance have not been entirely tested.			
	FUIIOWING SKIN CONTACT.	According to our findings, chemical, physical and toxicological properties of he substance have not been entirely tested.			



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

Following eye contact:		the substance have not been entirely tested. According to our findings, chemical, physical and toxicological properties of		
Following ingestion:	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:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.				
5.4.	Additional information				
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods: Evacuate members of all non-essential personnel and the members without protective equipment. Remove all sources sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (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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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	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment: The storage must be made of hard material; be resistant to chemicals. There must be no confidence directly leads into sewage system. Secure proventilation.				
	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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SECTION 8. Exposu	re contr	ols/persona	l protec	tion				
8.1. Control par		013, per30110	ii protee					
Substance					cupational exposure limit values/short term values		Biological limit values	
				р	pm	mg/m³		
-		-			-	-	No information available	
Substance name:								
EC No: -		CAS No:	-					
DNEL								
				Ind	ustrial			
Route of	A	Acute		Acute		Chronic	Chronic	
exposure:		ect local	effe	ct syst	emic	effect local	effect systemic	
Oral -			-			-	-	
Inhalation -		-				-	-	
Dermal	-	-				-		
Critical physical para	meters: s	solubility, fla	mmabilit	ty, corr	osivity:	-		
	1		ı	Con	sumer			
Route of exposure:		Acute ect local	Acut effect sys			Chronic effect local	Chronic effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC								
Environmental prote	ction tar	get			PNEC			
Fresh water					No information available			
Freshwater sediment	:S				No information available			
Marine water					No infor	nation available		
Marine sediments					No information available			
Food chain					No infor	mation available		
Microorganisms in s	ewage tr	eatment			No information available			
Soil (agricultural)					No infor	mation available		
Air			No information available					



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8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prexposure:	event	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	oment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection				
	Hand protection:	1	artive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation available		
8.2.3.	Environmental exposure	controls			
	Substance/mixture 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	event	See Section 6		

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



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

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

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



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Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	_
Specific tar	get organ toxicity – s	inale exposure	(STOT SF)		
эрсете саг	Specific		Target organ		Note
Oral exposure:	No information		No information available	-	
Dermal exposure:	No information	available	No information available	_	
Inhalation exposure:	No information	available	No information available	-	
Respiratory	irritation:	No inf	ormation available		
Irritation ar	nd corrosion				
milation ar	Exposure time	Species	Evaluation	Meth od	Note
Skin irritation:	-	-	-		
Eye irritation:	-	-	-		
Sensitizatio	n				
Dermal exposure:	No information avai	lable			
Inhalation	No information avai	lable			
exposure:					
exposure:	related to the physic	al, chemical an	d toxicological characterist	ics	
exposure: Symptoms	related to the physic		d toxicological characterist	ics	
Symptoms Oral exposure:	1	vailable	d toxicological characterist	ics	
exposure:	No information a	vailable vailable	d toxicological characterist	ics	



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

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



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Chronic	inhalation	No informa	tion available	No information available	-	
	CMR effects (c	carcinogenicity	, mutagenicity, r	eproductive toxicity)		
	Carcinogenicity: Based on available data, the classification criteria are not met.					
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criteria	a are not met.	
	Genotoxicity:		Based on av	ailable data, the classification criteria	a are not met.	
	Mutagenicity (in-vivo:	Based on av	ailable data, the classification criteria	a are not met.	
	Germ cell mut	agenicity:	Based on av	ailable data, the classification criteria	a are not met.	
	Reproductive	toxicity:	Based on av	ailable data, the classification criteria	a are not met.	
11.2	Information o	n other hazaro	s:			
11.2	Information o	n other hazard	s:			
11.2.1.	Endocrine disr					
	The substar contain com have endocri according to Commission E 2017/2100 or (EU) 2018/60 higher.	ponents con ne disrupting REACH Artic Delegated reg Commission	properties le 57(f) or ulation (EU) Regulation			
	Other informa	tions	·			
11.2.2.	Other informa	tions.				

SECTION 12. Ecological information

Toxicity 12.1.

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



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

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

12.2. Persistence and degradability

Abiotic degradation

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

2100	laara	dation
DIU.	ecnac	iaucii

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

12.3. Bioaccumulative potential

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

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

Bioconcentration factor (BCF)



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	Value		Species	Me	ethod	Evaluation		Note	
No information No available avai		No availa	informati able	on No inform available			No information available		ailable
	Chronic	ecotoxic	rity						
	Value		Dose	Exposure time	Species	Method	Eva	luation	Note
Chroni	c toxicity o	on fish	LC ₅₀	No information available	No information available	No information available	No info	ormation lle	-
	ic toxicity o cea (<i>Daphn</i>		EC ₅₀	No information available	No information available	No information available	No info	ormation lle	-
10.1									
12.4.	Mobility	in coil							
12.4.	Mobility		tad dictributi	ion in onvironm	ontal compart	tmonts:			
12.4.	Known c	or predic		on in environm	ental compart	tments:			
12.4.	Known o	or predic		on in environm	ental compart	tments:			
12.4.	Known of No infor	or predic mation a tension:						N	ote
12.4.	Known o	rmation attension: e kion ir	available	Concentra No informatavailable	tion	Method formation avail	able	N	ote
12.4.	Known of No informat available	r prediction attension: e kion ir a	°C Io oformation vailable	Concentra No informa	tion	Method	able		ote
Transp	No information available	tension a tension ir a a a a a a a a a a a a a a a a a a	°C Io oformation vailable	Concentra No informa	tion No inf	Method			ote
	No informat available Adsorption No	ion / des	°C Io Information vailable sorption efficient	Concentra No informa available	tion No inf	Method formation avail ration rate		- Method ormation	
Transp	No informat available ort No available No av	ion / des	°C Io Information Vailable sorption efficient constant	Concentra No information available log Kow	tion No inf Evapo No inform available	Method formation avail ration rate	No info	Method ormation ole ormation	Note



Trading name:

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

SODIUM THIOSULFATE, 5% SOLUTION

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12.5.	Results of					
	The substance/mixture does not contain components considered to have endocrine disrupting prope according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.					
12.6.	Endocrine	e disrupting properties				
	according		contain components considere or Commission Delegated reguls rels of 0.1% or higher.			•
12.7.	Other adv	verse effects				
12.7.		verse effects				
12.7.						

13.1.	Waste treatment methods

13.1.1. Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.

13.1.2. Waste codes/waste designations according to Law:

No information available

13.1.3. Waste treatment – relevant information:

No information available

13.1.4. Sewage disposal – relevant information:

Waste must not be disposed of into the sewage system.

13.1.5. Other disposal recommendations:

Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.

13.1.6. Relevant Community provisions:



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

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



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Special precautions for user:		-
Further information:	-	

15.1.	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:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessme	ent			
	None				

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



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

			_	_	
	ы	N	_	v	_
Δ	N	N	_	×	-

Exposure scenario resulting to Chemical safety assessment

-



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Trading name:	SULFURIC ACID, 3% SOLUTION			
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

SECTION	ON 1. Identification of	the substa	nce/mixture	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	SULFUR	IC ACID, 3% SC	DLUTION	
	Chemical name:	-			
	Catalogue number:	SK3-OT-	-X**		
1.2.	Relevant identified us	es of the su	ubstance or mi	xture and uses advised against	
	Uses:		For use with	special staining kits.	
	Uses advised against:		Only the ide	ntified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone number				
	National Protection ar	nd Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to R	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and cate	egory code:	Hazard statements*:			
	Not identified as hazardous	substance.	-			
2.1.2.	Additional information					
	-					
*For fu	ıll text of Hazard- and EU Hazaı	rd-statements: see S	ection 16			
2.2.	Label elements					
	Product identification:	SULFURIC AC	ID, 3% SOLUTION			
	Identification number:	-				
***************************************	Authorization no.:	-				
***************************************	Hazard pictograms:	-				



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Trading name:	SULFURIC ACID, 3% SOLUTION			
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	Signal word:	-	
	Hazard statements:	-	
	Precautionary statements:	-	
	Further information:	-	
2.3.	Other hazards		
	Endocrine Disrupting Propertie	s:	
	No known endocrine disrupting properties Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.		

SECTION 3. Co	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
7664-93-9/						
231-639-5/	-	3 %	sulfuric acid, 96%	Skin Corr. 1A; H314		
016-020-00-8						

SECTI	TION 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 aid	ler: Treat symptomatically.			
4.2.	Most important symptoms ar	nd effects, both acute and delayed			
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			



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	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
4.3.	Indication of any immediate	e 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 se	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.			

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personne					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods	Evacuate members of all non-essential personnel and 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:	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	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a we ventilated storage rooms, and away from sources of hea sunlight, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).			
7.3.	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			



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SECTION 8. Exposur	SECTION 8. Exposure controls/personal protection						
8.1. Control para	meters						
Substance					ccupational exposure limit values/short term values		Biological limit values
					ppm	mg/m³	
-		-			-	-	No information available
Substance -							
EC No: -		CAS No:	-				
DNEL							
				Inc	dustrial		
Route of	,	Acute		Acut	e	Chronic	Chronic
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-	-				-	
Critical physical parar	meters:	solubility, fla	ımmabilit	y, cor	rosivity:	-	
	T			Co	nsumer		
Route of		Acute	Acute			Chronic	Chronic
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
PNEC					I		
Environmental protect	tion 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 treatment				No information available			
Soil (agricultural)					No information available		
Air					No infor	mation available	



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

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



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

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

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



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Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	-
Specific ta	rget organ toxicity – s	ingle exposure	(STOT SE):		
	Specific	effects	Target organ		Note
Oral exposure:	No information	available	No information available	-	
Dermal exposure:	No information	available	No information available	-	
Inhalation exposure	e: No information	available	No information available	-	
	y irritation:	No info	ormation available		
Respirator	y irritation: and corrosion	No info	1		
Respirator	•	No info	1	Meth od	Note
Respirator	and corrosion		ormation available		Note
Respirator Irritation a	end corrosion Exposure time	Species	ormation available Evaluation	od	Note
Respirator Irritation a Skin irritation:	Exposure time -	Species	Evaluation	od	Note
Respirator Irritation a Skin irritation: Eye irritation:	Exposure time -	Species - -	Evaluation	od	Note
Respirator Irritation a Skin irritation: Eye irritation: Sensitizati	Exposure time	Species	Evaluation	od	Note
Respirator Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure:	Exposure time on No information avai	Species lable	Evaluation	od	Note
Respirator Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure: Symptoms	Exposure time on No information avai	Species lable lable	Evaluation	od	Note
Respirator Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure:	Exposure time on No information avai No information avai	Species lable lable al, chemical and vailable	Evaluation	od	Note
Respirator Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure: Symptoms Oral exposure:	Exposure time on No information avai No information avai No information avai No information avai No information avai	Species lable lable al, chemical and vailable vailable	Evaluation	od	Note



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

	- 161 66		
	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-



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Chronic inhalation No information		n available	No information available	-						
	CMR effects (c	CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)								
	Carcinogenicit	y:	Based on a	vailable data, the classification criteria	are not met.					
	Mutagenicity i	n-vitro:	Based on a	vailable data, the classification criteria	are not met.					
	Genotoxicity:		Based on a	vailable data, the classification criteria	are not met.					
	Mutagenicity i	n-vivo:	Based on a	vailable data, the classification criteria	are not met.					
	Germ cell mut	agenicity:	Based on a	vailable data, the classification criteria	are not met.					
	Reproductive t	toxicity:	Based on a	vailable data, the classification criteria	are not met.					
11.2	<u>.</u>	valuation of the								
11.2.1.		upting propertie	·s:							
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.									
11.2.2.	Other informa	tions:	·							
	-									

SECTION 12. Ecological information

12.1. Toxicity

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



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

12.2. Persistence and degradability

Abiotic degradation

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

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

12.3. Bioaccumulative potential

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

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

Bioconcentration factor (BCF)



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	Value		Species	Me	ethod	Evaluation		Note	
No info	ormation ble	No availa	informati able	on No inform available	ation	No information available	No info	ormation ava	ailable
	Chronic	ecotoxic	ity						
	Value		Dose	Exposure time	Species	Method	Eva	luation	Note
Chroni	c toxicity o	n fish	LC ₅₀	No information available	No information available	No information available	No info	ormation lle	-
	c toxicity o		EC ₅₀	No information available	No information available	No information available	No info	ormation lle	-
12.4.	Mobility	in soil							
		III SOII							
12.4.	-		tad distributi	on in environm	ental compart	ments:			
12.4.	Known c	r predic		on in environm	ental compart	ments:			
12.4.	Known o	or predic		on in environm	ental compart	ments:			
12.4.	Known c	or predic mation a tension:		on in environm		ments:		N	ote
12.4.	Known of No infor	mation attension: e Nation ir	available		tion		able	- N	ote
12.4.	Known of No informat available	e Nicon ir	°C Io Iformation vailable	Concentra No informat	tion	Method	able		ote
Transp	No information available	mation attension: e ion / des A/D coe	°C lo nformation vailable sorption	Concentra No informat	tion cion No inf	Method			
	No informat available Adsorption No	mation attension: e Note ion in attension A/D coed Henry's of	°C Io Information vailable sorption efficient	Concentra No informat available	tion No inf	Method Formation availa		- Method ormation	ote Note
Transp	No informat available ort No available No av	ilable	°C lo nformation vailable sorption efficient constant	Concentra No informat available log Kow No information	tion No inf Evapo No inform available	Method Formation availation rate nation	No info	- Method ormation	Note



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12.5.	Results of PBT and vPvB assessment
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.6.	Endocrine disrupting properties
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7.	Other adverse effects
12.7.	No information available
<u> </u>	The information available
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
13.1.3.	No information available
13.1.4.	Sewage disposal – relevant information:
13.1.4.	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:



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

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



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Special precautions for us	er:	-
Further information:	-	

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

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



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16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classification		Classification procedure			
_		-			
16.5.	Relevant H statements (number	er and full text)			
	H: 314	Causes severe skin burns and eye damage.			
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.			

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Exposure scenario resulting to Chemical safety assessment

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