

P.A.S.M. - JONES KIT, STABILIZED

The kit contains:

Borax, solution
Gold chloride, 0.6% solution
Methenamine, solution
Nuclear Fast Red (Kernechtrot) reagent
Periodic acid, 1% solution
Silver nitrate, stabilized solution
Sodium thiosulfate, 2% solution



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Trade name:	BORAX, SOLUTION				
Product code:	BO-OT-X**	Date of compilation:	14 November 2022	Version: 3	

1.1.	Product identifier				
	Trade name:	BORAX, S	OLUTION		
	Chemical name:	-			
	Catalogue number:	BM-X**			
1.2.	Relevant identified us	es of the suk	ostance or mix	ture and uses advised against	
	Uses:		For use with	Grocott kit, stabilized and P.A.S.M. Jones kit, stabilized.	
	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		
	Telefax:		+385 1 2404039		
	e-mail of competent p	e-mail of competent person:		msds@biognost.hr	
	National contact:	National contact:			
1.4.	Emergency telephone	numbers			
	National Protection and Rescue Di		irectorate:	112	
	Trational Froteetion at				
	Medical information:			+385 1 2348 342	

SECTIO	ON 2. HAZARDS IDENTIFICA	ΓΙΟΝ				
2.1.	Classification of the substan	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*:					
	Repr. 1B		H360FD			
2.1.2.	2.1.2. Additional information					
	-					
* For f	ull text of Hazard- and EU Haza	ard-statements: see	SECTION 16			
2.2.	Label elements					
	Product identification:	BORAX, SOLU	JTION			
	Identification number:	-				
	Authorisation number:	-				



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	Hazard pictograms:	GHS08			
	Signal word:	Danger			
	Hazard statement:	H360FD May damage fertility. May damage the unborn child.			
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P308+P313 IF exposed or concerned: Get medical advice/attention.			
	Supplemetal hazard information (EU):	-			
2.3.	Other hazards				
	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. Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).				

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)		
1330-43-4/ 215-540-4/ 005-011-00-4	-	4 - 5%	disodium tetraborate	Eye Irr. 2; H319 Repr. 1B; H360FD		

SECTI	SECTION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	Show this material safety data sheet to the doctor in attendance.			
	Following inhalation:	After inhalation: fresh air. Call in physician.			
	Following skin contact:	After inhalation: fresh air. Call in physician.			
	Following eye contact:	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.			
	Following ingestion:	DO NOT induce vomiting. If symptoms persist, consult a doctor.			
	Self-protection of the first aider	Avoid direct contact with the chemical; use appropriate protective equipment described in Section 8.			
4.2.	Most important symptoms and effects, both acute and delayed				



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	Following inhalation:	High concentration vapor inhalation may cause headache, dizziness, difficult breathing and unconsciousness.		
	Following skin contact:	Causes skin irritation, redness, swelling. Prolonged or repeated contact causes defatting and dry skin.		
	Following eye contact:	Vapors irritate eyes. Splashing may cause irritation and redness.		
	Following ingestion:	Nausea, vomiting diarrhea, abdominal cramps, anderythematous lesions on the skin and mucous membranes. Other symptoms include: circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma.		
4.3.	Indication of any immediate medical attention and special treatment needed			
	No further relevant information available.			

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	CO ₂ , dry powder, water foam.			
	Unsuitable extinguishing media:	For this substance/mixture no limitations of extinguishing agents are given.			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous by products of fire:	Formation of toxic gases is possible during heating or in case of fire.			
5.3.	Advice for firefighters	Advice for firefighters			
	Use a self-contained open-circuit cor	npressed air breathing apparatus and fireproof clothing.			
5.4.	Additional information				
	Collect contaminated firefighting water separately. 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). Keep unprotected persons away.			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Do not breathe in vapor ensure adequate ventilation 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).				



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6.2.	Environmental precaution	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 fo	or containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping Sand or clay barriers. procedures:				
6.3.2.	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and 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 tools that may cause sparks.				
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	DN 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	prevent fire:			
	Measures to prevent aerosol and dust generation	•	Secure proper ventilation.		
	Measures to protect the environment:	to protect the environment:			
	Other measures:		-		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Tho	roughly wash	hands after work and before eating.		
7.2.	Conditions for safe storage, including any incomp	atibilities			
	Technical measures and storage conditions:	chnical measures and storage conditions: Keep in tig well ventila of heat, sui			
	Packaging materials:	Manufactur	er's original packaging.		
	Requirements for storage rooms and vessels:	Keep away tightly close	from food and drink. Keep the containers ed.		



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	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-
SECTIO	ON 8. Exposure controls/personal protection	

SECTION 8. Exposure controls/personal protection									
8.1. Control par	ameters								
Substance		CAS No			Occupational exposure limit values/short term values		Biological limit values		
				ŀ	ppm	mg	ı/m³		-
-		-			_		-	-	
Substance: -									
EC No: -		CAS No:	-						
DNEL									
				Ind	lustrial				
Route of exposure:		te effect local			e effect temic			nic effect ocal	Chronic effect systemic
Oral	-		-				-		-
Inhalation	-		-				-		-
Dermal	-		-				-		-
Critical physical para	meters:	solubility, fla	mmabili	ty, cori	rosivity:	-			
				Cor	nsumer				
Route of exposure:		te effect local			e effect temic			nic effect ocal	Chronic effect
Oral	_	iocai		sys	terriic			JCai	systemic
			-				-		-
Inhalation	-		-				-		-
Dermal - - - -									
PNEC									
Environmental protection target PNEC									



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Fresh wat	er	No information available	
Freshwate	er sediments	No information available	
Marine w	ater	No information available	
Marine se	ediments	No information available	
Food cha	in	No information available	
Microorg	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		
	Substance/mixture related measures to prevent exposure during identified uses:	Use personal protective equipment. Do not eat, drink or smo	
	Structural measures to prevent exposure:	No information available	
	Organisational measures to prevent exposure:	Organization of work in order to reduce other worker's during work process.	influence
	Technical measures to prevent exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.	
8.2.2.	Personal protection equipment:		
8.2.2.1.	Eye and face protection:	Face shield and safety glasses Use equipment for eye tested and approved under appropriate government such as EN 166(EU)	•
8.2.2.2.	Skin protection		
		Gloves must be inspected prior to use. Use proper glotechnique (without touching glove's outer surface) to contact with this product. The selected protective glovesatisfy the specifications of EU Directive 89/686/EEC a standard EN 374 derived from it.	avoid skin ves have to
	Hand protection:	Full contact: Glove material: Viton Glove thickness: 0.7 mm	
		Break through time: 480 min Splash contact:	
		Glove material: Nitrile rubber Glove thickness: 0.4 mm	
		Break through time: 35 min	



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	Other skin protection:	Complete suit protecting against chemicals, flame retardant antistatic protective clothing (EN 13688). The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
8.2.2.3.	Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use type ABEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).
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
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

1.	Information on basic physical and chemic	cal properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	no odour/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
	Lower 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



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	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:	No relevant information available.				
10.2.	Chemical stability:	The product is chemically stable under recommended storage conditions.				
10.3.	Possibility of hazardous reactions:	No dangerous reactions known.				
10.4.	Conditions to avoid:	No information available				
10.5.	Incompatible materials:	No information available				
10.6.	Hazardous decomposition products:	No information available				

SECTION 11. To	oxicological informati	on			
11.1. Informa	ation on toxicological e	ffects			
Acute t	oxicity:				
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral:	OECD Test Guideline 401	rat	LD ₅₀	No information available	>2.500 mg/kg (disodium tetraborate)
Dermal:	No information available	rabbit	LD ₅₀	No information available	>2.000 mg/kg (disodium tetraborate)
Inhalation:	No information available	rat	LC ₅₀	4 h	>2.12 mg/l (disodium tetraborate)
Specific	c target organ toxicity -	single expos	ure (STOT-SE):		
	Specif	Specific effects			Note
Oral:	No information av	No information available		nation available	-
Dermal:	No information av	ailable	No inforr	mation available	-
Inhalation:	No information av	ailable	Respirato	ory system	-



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Aspiration	on hazaı	rd:	-					
Irritation	n and co	rrosion						
			oosure ime	pecies	Evaluatio n	Metho	d	Note
Skin corrosion/iri	itation	-	-		-	-	-	
Serious eye		_	_		_	_	-	
damage/irritation	1	_	_		_	_	_	
2								
Sensitiza	ation							
Skin sensitization	1:	No informa	ation available					
Respiratory sensitization:		No informa	ation available					
Sympto	ms relat	ed to physic	cal, chemical, a	nd toxicol	ogical prope	erties		
Oral exposure:	nau hea ven of c	sea, dazed f rt/circulator tricular fibri	feeling-uncons y system such llation through t; functional di	sciousness, as vasodila n cardiac se	'coma, poss ation (flush) ensitization)	ible hypoth , hypotensi , danger of	nermia, reac ion, arrhythi central resp	
Dermal exposure		ıses skin irrit skin.	tation, redness	, swelling.	Prolonged o	or repeated	l contact ca	uses defatting and
Inhalation exposure:	brea	athing and s	•	gh concent	tration vapo	or inhalatio	n may cause	roat, cough, difficult e headache, malaise orders.
Eye exposure:			eyes. Splashing ohotophobia.	g may caus	e irritation a	and rednes	s, lacrimatic	n, pain, swelling,
Repeate	d dose	toxicity (sub	acute, subchro	onic, chron	ic)			
		Dose	Exposure time	Species		Method	Evaluatio n	Note
Subacute oral	No ir availat	nformation ble	No information available	No ir available	nformation	No informa tion availabl e	No informati on available	-



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Subacute dermal	No information available	No information available	No information available	No informa tion availabl e	No informati on available	
Subacute inhalation	No information available	No information available	No information available	No informa tion availabl e	No informati on available	
Subchronic oral	No information available	No information available	No information available	No informa tion availabl e	No informati on available	
Subchronic dermal	No information available	No information available	No information available	No informa tion availabl e	No informati on available	
Subchronic inhalation	No information available	No information available	No information available	No informa tion availabl e	No informati on available	
Chronic oral	No information available	No information available	No information available	No informa tion availabl e	No informati on available	
Chronic dermal	No information available	No information available	No information available	No informa tion availabl e	No informati on available	
Chronic inhalation	No information available	No information available	No information available	No informa tion availabl e	No informati on available	
Specific	target organ toxicit	v - repeated ex	(posure (STOT-RE):	-	***************************************	
	g : : : g :	Specific e		Target org	jan	Note



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Subacu	te oral	No information	n available	No information available	-			
Subacu	te dermal	No information	n available	No information available	-			
Subacu	te inhalation	No information	n available	No information available	-			
Subchro	onic oral	No information	n available	No information available	-			
Subchro	onic dermal	No information	n available	No information available	-			
Subchro	onic inhalation	No information	n available	No information available	-			
Chronic	oral	No information	n available	No information available	-			
Chronic	dermal	No information	n available	No information available	-			
Chronic	inhalation	No information	n available	No information available	-			
	CMR effects (carcinoge	enicity, mutagenici	ty, reproduct	ive toxicity)				
	Carcinogenicity:		No informa	tion available				
	Mutagenicity in-vitro:		No informa	tion available				
	Genotoxicity:		No information available					
	Mutagenicity in-vivo:		No information available					
	Germ cell mutagenicity	/ :	No information available					
	Reproductive toxicity:		May damage the unborn child. May damage fertility.					
	Summary of evaluati properties:	on of the CMR	No information available					
11.2.	Information on other h	nazards:						
11.2.1.	Endocrine disrupting p	roperties:						
	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 information:							
	To the best of our kno thoroughly investigate	_	cal, physical,	and toxicological properties ha	ave not been			

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



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

12.2. Persistence and degradability

Abiotic degradation

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

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

12.3. Bioaccumulative potential



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	Octa	nol-water	partition	coeffic	ient (l	og Kov	<i>'</i>)					
Value	e	Concen	tration	рН		°C	Method	E	valuation	ı	Not	te
-		No info	ormation	-	_	. :	No information available	-		-		
V	Bioco	oncentratio	on Factor Spec				Method	Ev	/aluation		Note	
-		-				No inf	ormation available	-		-		
	Chro	nic ecotox	vicity									
	Val			se		osure ime	Species	M	ethod	Evalu	ıation	Note
Chronic	toxici	ty on fish	LC ₅₀		No inforr availa	mation ble	No information available		rmation able			-
Chronic crustace		-	EC ₅₀		No inforr availa	nation Ible	No information available		No No information - available		-	
12.4.	Moh	ility in soil										
12,7,				ributio	n in o	nvironn	nental compartment	tc·				
		nformation			11 111 6	IIVIIOIII	nental compartment					
		ace tension		<u> </u>								
	Julia	ice terision	1.									
	Value				°C		Concentration	1		Method		Note
	No information available		No information available		mation	No information available		No information available		-		
								<u> </u>				
	Adsc	orption / d	esorption	1				*				
Transpo	ort		efficient constant		log	Kow	Evaporation rate		Metho	d	N	ote



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Soil-Water	No availa	information able	No information available	No information available	No information available	-
Water-Air	No availa	information able	No information available	No information available	No information available	-
Soil-Air	No availa	information able	No information available	No information available	No information available	-
1						
12.5. R	esults of	PBT and vPvB as	sessment			
			ntains no component ent and very bioaccui		•	t, bioaccumulative and higher.
12.6. Er	ndocrine	disrupting prop	erties			
				ts considered to	he either nersisten	t, bioaccumulative and
			ent and very bioaccur		•	
		··				
12.7. O	ther adv	erse effects				
D	ischarge	into the environ	ment must be avoide	ed.		
SECTION	13. Disp	osal considerati	ons			
		rocessing metho				
	Trabto p	. c cccogcuc				
13.1.1.	Product,	/Packaging dispo	osal:			
	Submit f Protection	•	e legal person autho	rized by the Mi	nistry of Environmer	ntal and Nature
13.1.2.	Waste co	odes/waste desig	gnations according to	Low:		
	Disposal must be made according to official regulations.					
13.1.3.	Wasto tr	retment – relevar	nt information			
13.1.3.	No information available					
	140 111101	mation available				
13.1.4.	Sewage	disposal – releva	int information:			
	Waste m	nust not be dispo	sed of into the sewa	ge system.		
13.1.5.	Other di	isposal recomme	ndations:			



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	authorized by the ministry	,				
13.1.6.	Relevant Community prov	visions:				
		ccording to official regulations.				
	: -					
SECTION	I 14. Transport informatio	vn				
	Transporting/shipment by r	oad (ADR)				
UN numl	oer:	Not subject to transport regulations.				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing (group:	-				
Environm	nental hazards:	-				
Special precautions for user:		-				
Transporting/shipment by rail		rail (RID)				
UN number:		Not subject to transport regulations.				
UN prop	er shipping name:	-				
Transport hazard class(es):		-				
Packing (group:	-				
Environm	nental hazards:	-				
Special p	recautions for user:	-				
	Transporting/shipment by i	nland waterways (ADN)				
UN numl	oer:	Not subject to transport regulations.				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing (group:	-				
Environm	nental hazards:	-				
Special p	recautions for user:	-				
Transporting/shipment by sea (sea (IMDG)				
UN number:		Not subject to transport regulations.				
UN proper shipping name:		-				
Transport hazard class(es):		-				
Packing (group:	-				
Environm	nental hazards:	-				
Special p	recautions for user:	-				



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Transport in bulk condition in accordance with Annex II. of MARPOL 73/78 and IBC Codex:	_
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:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

. Safety, health and e	vironmental regulations/legislation specific for the substance or mixture
EU regulations	
Authorisation and/o	restrictions on use
Authorisations:	-
Restrictions:	-
Other EU regulation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council 18 December 2006 concerning the Registration, Evaluation, Authorisation ar Restriction of Chemicals (REACH), establishing a European Chemicals Agence amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/S and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EE 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 200 on the limitation of emissions of volatile organic compounds due to the use of organs solvents in certain paints and varnishes and vehicle refinishing products ar amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safe 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 mixture amending and repealing Directives 67/548/EEC and 1999/45/EC, and amendir Regulation (EC) No 1907/2006; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);



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

SECTIO	ON 16	. Other information	
16.1.	Indi	cation of changes:	-
16.2.		previations 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.	Key literature references and source of data:		-
16.4.		sification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classifi	cation	1	Classification procedure
-			-
16.5.	Rele	evant H statements (num	ber and full text)
	H:	319 360DF	Causes serious eye irritation. May damage fertility. May damage the unborn child.
16.6.	Training advice:		-
16.7.	<u> </u>		** "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 assessment



SAFETY DATA SHEET

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

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Trading name:	GOLD CHLORIDE, 0.6% SOLUTION				
Product code:	ZK06-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	GOLD CHLC	GOLD CHLORIDE, 0.6% SOLUTION			
	Chemical name:	-				
	Catalogue number:	ZK06-OT-X	**			
1.2	Relevant identified us	es of the subs	tance or m	nixture and uses advised against		
	Uses:		Compor	nent of many special staining kits.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:	Other information:		-		

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to R	egulation (EC) No 1	272/2008 (CLP)		
	Hazard class and cat	egory code:	Hazard statements*:		
	Not identified as hazardous	substance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	GOLD CHLORIE	DE, 0.6% SOLUTION		
	Identification number: -				
	Authorization number: -				
	Hazard pictograms:	-			



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	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 number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
-	-	_	Contains no hazardous substances	-

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



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

SECTIO	ON 6. Accidental release meas	ures
6.1	Personal precautions, protective	ve equipment and emergency procedures
6.1.1.	For non-emergency personnel	
	Protective equipment:	Use personal protective equipment (see Section 8).
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.
	Emergency procedures:	Mark the area using proper signs.
6.1.2.	For emergency responders:	
	Use protective equipment; in a (see Section 8).	case of inadequate ventilation use adequate airways protective equipment
6.2	Environmental precautions:	
	Do not dispose of in sewage, or Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.
6.3	Methods and material for con-	tainment 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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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 on safe handling.
	See Section 8 for information	on 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	on:	Secure proper ventilation.
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.
	Other measures:		Protect against electrostatic charges.
7.1.2.	Advice on general occupational hygiene:		
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.
7.2	Conditions for safe storage, including any incom	npatibilities	
	Technical measures and storage conditions:	well ventil	phtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.
	Packaging materials:	Manufactu	ırer's original packaging.
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper I.



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

SECTION 8. Expo	curo contr	olc/porce	nal pro	toction			
	parameters	ois/perso	niai pro	tection			
Substanc		CA			cupational exposure limit		Biological limit values
				ķ	opm	mg/m³	J
-			-		-	-	-

Substance name:	-	1				T	
EC No:	-	CAS No	:	-			
DNEL							
				Ind	lustrial		
Route of	Acı	ute	А	Acute		Chronic	Chronic
exposure:	effect	local	effect	systemic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
Critical physical pa	arameters:	solubility,	flammal	bility, corr	rosivity:	-	
				Cor	nsumer		
Route of	A	cute	Δ	Acute		Chronic	Chronic
exposure:	effe	ct local	effect	t systemic	:	effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
PNEC							
Environmental pro	otection tar	get			PNEC		
Fresh water					no inforr	nation available	
Freshwater sedime	ents		_		no inforr	nation available	
Marine water					no inforr	mation available	
Marine sediments					no inforr	nation available	



Food chain

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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 controls		
	Substance/mixture related measur 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 prever exposure:	nt	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent exp	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:	levels	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		
	Hand protection:		otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min
	Other skin protection:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No 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

(Physical state: Colour:	Value liquid	Method
		liquid	
	Colour:	прин	No information available
		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
	Lower 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
l	Decomposition temperature:	No information available	No information available
	рН:	No information available	No information available
l	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
l	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

SECTION 11. To	xicological info		ined in	Regula	ation (EC) No 12	72/2008			
Acute to		143363 43 461		riegala	111011 (20) 110 12	-, -,			
Route of exposure:	Method	Spe	ecies	Dos	e LD ₅₀ /LC ₅₀ or ATE _{mix}	Exp	osure tir	ne	Results
Oral:	No informa	ion	_	No in availa	formation able		_		_
Dermal:	No informa	ion	-	No in availa	formation able		-		_
Inhalation:	No informa available	ion	-	No in availa	oformation able		-		-
Specific	target organ to		•	sure (ST			****		
		pecific effect			Target organ				Note
Oral:		ion available			No information available			-	
Dermal:	No informa	ion available	<u>)</u>		No information available			-	
Inhalation:	No informa	tion available	<u> </u>		No information	availabl	e	-	
Aspiration	on hazard:		No	inform	ation available.				
Irritation	n and corrosion								
	Ехро	sure time		Specie	s Evalua	tion	Method		Note
Skin corrosion/irritation	on:		-		-	-		_	
Serious eye damage/irritation		-		-	_		-		
Sensitiza	ation								
Skin sensitization	n: No	information	availa	ble.					
Respiratory sensitization: No information available in the information ava									



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



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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; rep	oroductive to	oxicity)			
Carcinogenio	city:	Base	ed on availab	ole data, the classification o	criteria are not met.		
Mutagenicity	ı in vitro:	Base	ed on availab	ole data, the classification o	criteria are not met.		
Genotoxicity	Genotoxicity:		Based on available data, the classification criteria are not met.				
Mutagenicity	ı in vivo:	Base	ed on availab	ole data, the classification o	criteria are not met.		
Germ cell mu	utagenicity:	Based on available data, the classification criteria are not met.					
Reproductive	e toxicity:	Base	ased on available data, the classification criteria are not met.				
Summary of properties:	of evaluation of the CI		Based on a met.	vailable data, the classific	ation criteria are not		
i		i					
11.2 Information	on other hazards:						
11.2.1. Endocrine di	srupting properties:						
components disrupting p Article 57(f regulation (l	nce/mixture does not cont considered to have endocr properties according to REA or Commission Delegate EU) 2017/2100 or Commiss EU) 2018/605 at levels of 0.1%	ine CH ted ion					
11.2.2. Other inform	nation:						
-							

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



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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
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	_
		_	_	_	_	_

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	-

 ·			rad	- 4	•
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1 1 3 1 1 1					
% Degradation	Time (days) Method		Evaluation	Note	
No information available					



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							# 1				
	4										
12.3	Bioaccum	ulative _l	potential								
	Octanol-w	ater pa	rtition co	efficient (log Ko	w)					
Valu	e Coi	ncentra	tion	рН	°C	M	ethod	Evalu	ation		Note
-	-		-	-	-	-		-		-	
								!			
	Bioconcen	tration	factor (Bo	CF)	:						
V	alue		Species	5		Method	k	Evaluati	on		Note
No info availabl	rmation e	No availa		rmation	No in availa	formation ble	on	No informati available	on	-	
	Chronic ed	cotoxici	ty								
	Value		Dose		osure ime	Spe	ecies	Method	Evalu	uation	Note
Chronic	toxicity on	fish	LC ₅₀	1	No information available		mation able	No information available	No inform availak		-
	toxicity on ea (<i>Daphnia</i>	")	EC ₅₀	No infor avail	mation able	No infori availa	mation able	No information available	No inform availak		-
				<u> </u>					1		
12.4	Mobility in	n soil									
	Known or	predict	ed distrib	ution in e	environ	mental o	compart	ments:			
	No inform	ation a	vailable								
	Surface te	nsion:									
	Value		°C	С	oncent	ration		Method			Note
	No informatio available		o formatior ⁄ailable	n :	inform ailable	nation	No infavailat	ormation ble	-		
		<u> </u>					<u> </u>				



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	Adsorption / desorption							
Transpor	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	r No information available	No information available	No information available	No information available	-			
Soil-air	No information available	No information available	No information available	No information available	-			
	Results of PBT and vPvB asset The substance/mixture does		onents considered to	o have endocrine d	isrupting properties			
•	according to REACH Article 5 Regulation (EU) 2018/605 at l	7(f) or Commission	n Delegated regulat					
12.6.	Endocrine disrupting propert	ies						
·	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 further relevant information	on available.						
SECTION	I 13. Disposal consideration	S						
13.1	Waste treatment methods							
13.1.1.	Product/Packaging disposa	ŀ						
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.							
	Submit for disposal to the I		rized by the Ministr	y of Environmental	and Nature			
13.1.2.	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 15 01 10*: Packaging that consubstances	egal person autho ntions according to ontains residual ha) Law:					



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Trading name:					
Product code:	ZK06-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

	Waste must not be disposed	of into the sewage system.			
13.1.5.	Other disposal recommendat	ions:			
	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 provision	ons:			
	Disposal must be made accor	ding to official regulations.			
SECTION	1 14. Transport information				
-	Transporting/shipment by road	I (ADR)			
UN numb	oer:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	entally hazardous:	-			
Special p	recautions for user:	-			
-	Transporting/shipment by rail (RID)			
UN numb	oer:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	entally hazardous:	-			
Special p	recautions for user:	-			
	Inland waterway transport (ADI	N)			
UN numb	per:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	entally hazardous:	-			
Special p	recautions for user:	-			
-	Transporting/shipment by sea ((IMDG)			
UN numb	oer:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			



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Trading name:	GOLD CHLORIDE, 0.6% SOLUTION					
Product code:	ZK06-OT-X**	Date of compilation:	21 Dec 2022	Version:	2	

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	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, 0.6% SOLUTION					
Product code:	ZK06-OT-X**	Date of compilation:	21 Dec 2022	Version:	2	

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

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trade name:		METHENAMI	METHENAMINE, SOLUTION			
Product code:	MET-OT-X**	Date of compilation:	14 November 2022	Version:	4	

1.1.	Product identifier					
	Trading name:	METHENAMINE, SOLUTION				
	Chemical name:	-				
	Product code:	MET-OT-X**				
1.2.	Relevant identified uses of the substance or mixture and uses advised against					
	Uses:			For use with Grocott and P.A.S.M./Jones kits.		
	Uses advised against:			Only the identified uses are advised.		
	Reason why uses advised against:		nst:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet					
	Supplier: BioG		BioGn	Gnost Ltd.		
	Address: Med		Medju	djugorska 59, Zagreb		
	Telephone number: +38		+385	35 1 2409997		
	Telefax: +385		+385	5 1 2404039		
	e-mail of competent person: msds		msds(ls@biognost.hr		
	National contact:		-			
1.4.	Emergency telephone numbers					
	National Protection and Rescue Direction		e Direc	torate:	112	
	Medical information:				+385 1 2348 342	
	Other information:				-	

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	tegory code:	Hazard statement*:		
	Skin. Sens. 1		H317		
2.1.2.	Additional information				
	-				
*For the	*For the full text of H and EUH phrases see Section 16.				
2.2.	Label elements				
	Product identification:	METHENAMINE, SOLUTION			
	Identification number:	-			
	Authorisation number: -				



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Trade name:		METHENAMINE, SOLUTION				
Product code:	MET-OT-X**	Date of compilation:	14 November 2022	Version:	4	

	Hazard pictograms:	GHS07			
	Signal word:	Warning			
	Hazard statement:	H317 May cause an allergic skin reaction.			
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P308 + P313 IF exposed or concerned: Get medical advice/attention.			
	Supplemetal hazard information (EU):	-			
2.3.	Other hazards				
	No known endocrine disrupting properties. 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.				

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)					
100-97-0/ 202-905-8/ 612-101-00-2	-	15 - 25 %	methenamine	Flam. Sol. 2; H228 Skin. Sens. 1B; H317					

SECTIO	SECTION 4. First aid measures					
4.1.	Description of first aid measures					
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.				
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.				
	Following skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.				
	Following eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs and persists: Get medical advice.				
	Following ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.				



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Trade name:					
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	Self-protection of the first aider	-					
4.2.	Most important symptom	s and effects, both acute and delayed					
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.					
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.					
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.					
	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						
	Treat symptomatically.	Treat symptomatically.					

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

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective e	equipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment: Use suitable personal protective equipment (see Section 8).					
	Accident prevention methods: Evacuate members of all non-essential personnel and those members without protective equipment.					
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in case equipment (see Section 8).	Use protective equipment; in case of inadequate ventilation use adequate airways protective				



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Trade name:					
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6.2.	Environmental precautions:	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 co	ontainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.					
6.3.2.	Cleaning up: After removing the product, use water to wash the work space and used materials.					
6.3.3.	Other information: No information available.					
6.4.	Reference to other sections					
	-					

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



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Trade name: METHENAMINE, SOLUTION					<u>-</u>				
Product code:	MET-C)T-X**	Date o	of com _l	pilation:	14 Noveml	oer 2022	2 Version: 4	
	Recommendations: Industrial sector specific solutions:								
CECTION O EVE	SUPE CO	NTDOLG (FREEN	AL DDG	TECTION				
8.1. Control	paramete		EKSONA	AL PRO	TECTION				
Substanc		CAS	No		upational exposure limit ues/short term values		Ві	Biological limit values	
				pı	pm	mg/m³			
-		-			-	-		-	
Substance: -									
EC No: -		CAS No:	_						
DNEL		C/13 110.							
				Indu	ustrial				
Route of exposure	e: Acu	ite effect local	Acute eff			Chronic eff local	ect	Chronic effect systemic	
Oral	-		-			-		-	
Inhalation	-		-			_		-	
Dermal	-		-			-		-	
Critical physical p	arameters:	solubility, fl	ammabil	lity, corr	osivity:	-			
				Con	sumer				
Route of exposure	e: Acu	ite effect local		cute effe systemic		Chronic effect Chronic effect systemic		Chronic effect systemic	
Oral	-		-			_		-	
Inhalation	-		-			-		-	
Dermal	-		-			-		-	
PNEC									
Environmental pro	otection ta	rget			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 i	n sewage 1	treatment			No information available				
Soil (agricultural)					No information available				
Air					No information available				



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Trade name:		METHENAMI	NE, SOLUTION		
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8.2.	Exposure controls						
8.2.1.	Appropriate engineering controls						
	Substance/mixture related measure to prevent exposure during ident uses:	ified	Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prevent exposure:		No information available				
	Organisational measures to preve exposure:		Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equipment:						
8.2.2.1.	Eye and face protection:		Safety glasses tested and approved under appropriate standards such as EN 166(EU).				
8.2.2.2.	Skin protection:						
	Hand protection:		Handle with chemical resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.				
	Other skin protection:		No specific protective equipment required.				
8.2.2.3.	Respiratory protection:	1	Use when overexposure potential. Improper use of respirators is dangerous.				
8.2.2.4.	Thermal hazards:		No information available				
8.2.3.	Environmental exposure controls						
	Substance/mixture related measures to prevent exposure:	See Se	ection 6				
	Structural measures to prevent exposure:	Use m	nodern equipment.				
			t the work process to the required working conditions of the place.				
	Technical measures to prevent exposure:	See Se	ection 6				

SECTIO	SECTION 9. Physical and chemical properties						
9.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Colour:	colourless to light yellow	No information available				



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

SECTIO	SECTION 10.: Stability and reactivity						
10.1.	Reactivity:	Not reactive under normal conditions.					
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).					
10.3.	Possibility of hazardous reactions:	No information available.					
10.4.	Conditions to avoid:	Contact with incompatible materials and temperature extremes.					
10.5.	Incompatible materials:	Strong oxidizers.					
10.6.	Hazardous decomposition products:	Does not decompose under normal conditions. During fire, thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (as asphyxiant as sufficient concentrations).					



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

amended by Regulation (EU) No. 2020/878

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		-	,1		-

11.1. Inform	nation on tox	kicological effe	ects						
	toxicity:								
Route of exposure:	Me	ethod	Species LE		Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}		Exposur time	e	Results
Oral:		ormation iilable		-	inform	nation	-		-
Dermal:		ormation iilable		-	No inform avail	nation	-		-
Inhalation:		ormation ilable		-	N inform avail	nation	-		-
Specif	fic target org	jan toxicity - s		•	OT-SE):				
		Specific effects				Target organ			Note
Oral:		rmation availa				-		-	
Dermal:		rmation availa				-		-	
Inhalation:	No info	rmation availa	ble			-		-	
Aspira	ation hazard:								
7.00110	.c.on nazara.	·							
Irritati	on and corre	osion							
•		Exposure t	ime	Specie	:s	Evaluat	ion M	ethod	Note
Skin corrosion/i	rritation:	No inform	nation	rabbit	-		-		mild skin irritation
Serious irritation	ı to eyes:	No inform available	nation	-	-		-		-
<u> </u>									
	ization								
Skin sensitizatio	n: No	information av	vailable	2.					
Respiratory sensitization:	No	information av	vailable	e					
Symn	toms related	l to physical, c	hemica	al, and toxic	ological	properti	es		
Oral exposure:		No known spe							



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Trade name:		METHENAMI	NE, SOLUTION		
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Dermal exposur Inhalation expo			own specific syn		.	ıse skin irritatior			
•			known specific symptoms.						
, ,			. ,						
Repea	ated dose to	kicity (subacute, subcl	nronic, chror	nic)				
	Dose		Exposure time	Species	S	Method	Evaluation	1	Note
Subacute oral	No informa	ation	No information available	No informatic available	n	No information available	No informatic available	n	No information available
Subacute dermal	No informa	ation	No information available	No informatio available	n	No information available	No informatio available	n	No information available
Subacute inhalation			No information available	No informatic available	n	No information available	No informatic available	n	No information available
Subchronic oral	No information available		No information available	No informatic available	n	No information available	No informatic available	n	No information available
Subchronic dermal	onic No information available		No information available	No information available		No information available	No informatio available	n	No information available
Subchronic inhalation			No information available	No information available		No information available	No informatio available	n	No information available
Chronic oral	No informa	ation	No information available	No informatio available	n	No information available	No informatio available	n	No information available
Chronic dermal	No informa	ation	No information available	No informatio available	n	No information available	No informatio available	n	No information available
Chronic inhalation	No informa	ation	No information available	No informatio available	n	No information available	No informatio available	n	No information available
Speci	fic target org	an to	kicity - repeated	•	TOT				
Subacute oral		N	Specific effects		Target organ No information available			Note nformation	
Subacute derma	al		No information available No information available			information ava		available No information available	



Subacute inhalation

Subchronic oral

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No information

No information

available

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No information available

No information available

No information available

No information available

Subcilio	onic orai	NO INIORMATION availe	abie	INO INIORMALION AVAIIADIE	available		
Subchro	onic dermal	No information availa	able	No information available	No information available		
Subchro	ochronic inhalation No information availal		able	No information available	No information available		
Chronic	oral	No information availa	able	No information available	No information available		
Chronic	dermal	No information availa	able	No information available	No information available		
Chronic	inhalation	No information availa	able	No information available	No information available		
	CMR effects (carcino	ogenicity, mutagenicity,	reprodu				
	Carcinogenicity: Mutagenicity <i>in-vitro</i> : Genotoxicity:		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. 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 mutageni	city:	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
	Reproductive toxicit	y:					
	Summary of evalue properties:	uation of the CMR	No info	ormation available			
11.2.	Information on othe	er hazards:					
11.2.1.	.1. Endocrine disrupting properties:						
	No known endocrin that affect human h	e disrupting properties ealth.					
11.2.2.	Other information:						
	_						

SECTION 12. Ecological information	n
---	---

12.1. Toxicity



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Trade name:	METHENAMINE, SOLUTION				
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Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	-	-	-	-
Crustacea:	EC ₅₀	48 hours	-	-	-	-
Algae/aquatic plants:	IC ₅₀	72 hours	-	-	-	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	-	-	-	-
Crustacea:	EC ₅₀	48 hours	-	-	-	-
- 1	IC ₅₀	72 hours	-	-	-	-
Algae/aquatic plants:	.030					

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

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

12.3.	Bio	Bioaccumulative potential							
	Oct	ctanol-water partition coefficient (log Kow)							
Value	9	Concentration	рН	°C	Method	Evaluation	Note		
No information available		No information available	-	-	No information available	No information available	-		



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Trade n	ame:				ME	THEN	AMINE,	SOLUTIO	N			
Product	code:	ME	T-OT-X*		Date of cor	npilatio	on: 14	Novembe	er 2022	2	Version:	4
			***************************************				¥					
	Diocone		ion Fostor	(DCT)								
	i .	entrat	ion Factor									
Val No infor		NI- :	Specie:		No inform	thod	NI-	Evaluation information			Note	
available		avail			available	lation		illable)	_		
	Chronic	ecoto	xicity									
	Value		Dose		osure me	Species		Method	Ev	aluation	Note	.
Chronic	toxicity o	n fish	LC ₅₀	No inform availab		ormatio ailable		ormation ilable	_	rmation lable	-	
	toxicity o a (Daphn		EC ₅₀	No inform availab		ormatio ailable		ormation ilable		rmation lable	-	
12.4.	Mobility Known			ribution	in environm	ental co	ompartme	ents:				
	Surface	tensio	n:									
	Value)	°C	(Concentratio	n	Me	ethod			Note	
	No informatio n available		lo nformatior vailable		o informatio vailable		o informa vailable	ation	-			
	Adsorp	tion / c	desorption									
Transpor	rt	-	pefficient constant		log Kow	•	oration rate	Me	ethod		Note	
Soil-wate		inforn ailable	nation		information ilable	No inforr availa	nation ble	No infor available		-		
Water-ai		inforn ailable	nation		information ilable	No	mation	No infor available		-		



13.1.6.

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

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Trade r	name:		ME	THENAMINE,	SOLUTION	
Produc	t code:	MET-OT-X**	Date of con	npilation: 14	November 2022	Version:
Soil-air		information lable	No information available	No information available	No information available	_
12.5.	Results o	of PBT and vPvB as	sessment			
12.3.	This subs	stance/mixture co	ntains no compone		to be either persistent, (vPvB) at levels of 0.1%	
12.6.	Endocrin	e disrupting prop	erties			
	propertie	es according to RE		r Commission D	ered to have endocrine Delegated regulation (El gher.	
12.7.	Other ad	verse effects				
	No inforr	mation available				
SECTIO 13.1.		osal consideration	ons			
13.1.	Waste tre	sument methods				
13.1.1.	Product	t/Packaging dispo	sal:			
	Submit Protect	•	e legal person autl	norized by the M	linistry of Environment	al and Nature
13.1.2.	Waste o	codes/waste desic	nations according	to Law:		
			ccording to officia			
13.1.3.	Waste t	treatment – releva	nt information:			
	No info	ormation available				
13.1.4.	Sewage	e disposal – releva	nt information:			
	Waste r	must not be dispo	sed of into the sev	vage system.		
13.1.5.	Other d	lisposal recomme	ndations:			
	Do not	dispose of the pro	oduct's remains int	to the sewage sy	stem. Submit the rema	ins to the collecto

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

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

Relevant Community provisions:



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Trade name:		METHENAMINE, SOLUTION			
Product code:	MET-OT-X**	Date of compilation:	14 November 2022	Version:	4

SECTION 14. Transport information	
Transporting/shipment by roa	d (ADR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	_
Transporting/shipment by rail	(RID)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inla	and waterways (ADN)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea	(IMDG)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-
Transporting/shipment by air	(ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-



Further information:

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

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Trade name:	METHENAMINE, SOLUTION							
Product code:	MET-OT-X**	Date of compilation:	14 November 2022	Version: 4				
Packing group:		-						
Environmental haza	ırds:	-						
Special precautions	for user:	-						

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorisation and/or res	trictions on use				
	Authorisations:	-				
	Restrictions:	-				
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/9, 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 2000 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 XVII);				
	Information according 1 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-				
	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act					
15.2.	Chemical safety assessm	ent				

SECTION 16. Other information



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Trade name:	METHENAMINE, SOLUTION				
Product code:	MET-OT-X**	Date of compilation:	14 November 2022	Version:	4

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:	Manufacturer's MSDS file.		
16.4.	Classification and procedure 1272/2008 (CLP)	re used to derive the classification for mixture according to Regulation (EC)		
Classific	ation	Classification procedure		
-		-		
16.5.	Relevant H statements (nu	mber and full text)		
	H: 317	May cause an allergic skin reaction.		
16.6.	Training advice:	-		
16.7.	Further information:	"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 assessment	

-



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

1.1.	Product identifier					
	Trade name:	NUCLEAR F	AST RED (K	(ERNECHTROT) REAGENT		
	Chemical name:	-				
	Catalogue number:	KR-OT-X**				
1.2.	Relevant identified us	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		Count	erstain in many special staining kits.		
	Uses advised against:		Only t	he identified uses are advised.		
	Reason why uses advised against:		medic	The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet					
	Supplier: BioG		ioGnost Ltd	nost Ltd.		
	Address: Med		ledjugorska	ljugorska 59, Zagreb		
	Telephone number: +385		385 1 2409	5 1 2409997		
	Telefax: +385		385 1 2404	5 1 2404039		
	e-mail of competent person: msds		ısds@biogr	ds@biognost.hr		
	National contact: -					
1.4.	Emergency telephone number					
	National Protection a	nd Rescue Dir	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture			
2.1.1.	Classification according to Regul	Classification according to Regulation (EC) No 1272/2008 (CLP)		
	Hazard class and catego	ry code: Hazard statement*:		
	Not identified as hazardous subs	stance		
2.1.2.	Additional information			
	-			
* For fu	ıll text of Hazard- and EU Hazard-s	tatements: see SECTION 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			Γ
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

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

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		

SECTI	SECTION 4. First aid measures				
4.1.	Description of first aid measures				
	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.			
	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:	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:	NUCLEAR FAST RED (KERNECHTROT) REAGENT			Ţ
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	e substance 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 personne 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.	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 containn	nent and cleaning up				



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

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 info	rmation about containment.			

SECTIO	ON 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 generatio	n:	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. Th	oroughly	y wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incom	patibiliti	ies			
	Technical measures and storage conditions: be fir		, cold and well-ventilated space. Containers must mly closed. Maintain adequate ventilation of the s where the product is kept and handled.			
	Packaging materials:	Manu	facturer's original packaging.			
	Requirements for storage rooms and vessels:		away from food and drink. Keep the containers y closed.			



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

	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:	-			

SECTION 8. Exposure controls/personal protection								
8.1. Con	Control parameters							
Substance					ccupational exposure limit values/short term values B		iological limit values	
					ppm	mg/m³		
-			-		-	-		-
	1							
Substance name:	-							
EC No:	-		CAS No:	-				
DNEL								
					Industrial			
Route of exp	ocuro:	Acute effect Ac		cute effect	Chronic effect		Chronic effect	
Noute of exp	osuie.		local		systemic	local		systemic
Oral		-		-		-		-
Inhalation		-		-		-		-
Dermal		-		-		-		-
Critical physic	al paran	neters: s	olubility, fla	mmabilit	y, corrosivity:			
					Consumer			
Route of exp	ocura.	Acu	te effect Acut		cute effect	Chronic e	effect	Chronic effect
Noute of exp	osure.		local	!	systemic	local		systemic
Oral		-		-		-		-
Inhalation			-		-			
Dermal			-		-			
PNEC								
Environmenta	al protec	tion targ	get		PNEC	PNEC		
Fresh water					No info	No information available		



Freshwater sediments

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No information available

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

			<u>l</u>		
Marine water			No information available		
Marine se	diments		No information available		
Food chai	'n		No information available		
Microorganisms in sewage treatment			No information available		
Soil (agric	cultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering 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 acco	rdance with Section 7.		
	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.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
	Hand protection:	Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	Suitable mask or half mask equipped with a combined "A-P" filter and used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No info	rmation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Sec	tion 6		



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Trade name:		Γ		
Product code:	KR-OT-X**	Date of compilation:	14 November 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

.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
	Lower 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
9.2.	Other information		

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



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

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	n on toxicological effe	cts				
Acute toxic	ity:					
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposu	re time	Results
Oral:	No information available	_	No information available	No infor avail		_
Dermal:	No information available	_	No information available	No infor avail		_
Inhalation:	No information available	_	No information available	No infor		_
Specific tar	get organ toxicity – si	ngle exposure ((STOT SE):			
	Specific 6	effects	Target or	Note		
Oral:	No information avail	able	No information a	No information available -		
Dermal:	No information avail	information available		No information available		
Inhalation:	No information avail	able	No information available		-	
Aspiration	hazard:	-				
leritation of	nd corrosion					
IIIItation ai	Exposure tim	ne Sr	pecies Evaluatio	n 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						
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4				

Sensitiz	ation									
Dermal exposure	: No informatio	n available								
Inhalation exposure: No information available										
Sympto	ms related to the p	ohysical, chemic	cal and toxicolog	jical characterist	ics					
Oral exposure: No information available										
Dermal exposure: No information available										
Inhalation exposure:	No informatio	n available								
Eye exposure:	No informatio	n available								
Repeate	ed dose toxicity (su	bacute, subchro	onic, chronic)							
· ·	Dose	Exposure time	Species	Method	Evaluation	Note				
Subacute oral	No information available	No information available	No information available	No information available	No information available	-				
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-				
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-				
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-				
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-				
Subchronic No information inhalation 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:			NUCLEAR	R FAST RI	ED (K	ERNECHTROT) REAGEN	T		
Product code:	KR-C	KR-OT-X** Date of comp		ilation:		14 November 2022		Version: 4		4
Chronic inhalation	No info	ormation le	No information available	No informat available		No information available	No information	on	-	
Specific	target o	rgan toxic	rity – repeated e	xposure (S	STOT	RE):				
<u> </u>		1	Specific effects	•		Target orga	n		No	te
Subacute oral		No infor	mation available	e	No in	formation availa	ble	-		
Subacute derma	Subacute dermal No information available				e No information available					
Subacute inhalat	ion	No infor	mation available	No information available				-		
Subchronic oral		No infor	mation available	e No information available				-		
Subchronic derm	nal	No infor	mation available	e No information available				-		
Subchronic inhal	ation	No infor	mation available	No information available				-		
Chronic oral		No infor	mation available	e No information available				-		
Chronic dermal		No infor	mation available	е	No in	formation availa	ble	-		
Chronic inhalation	on	No infor	mation available	e	No in	formation availa	ble	_		
CMR ef	fects (car	cinogenic	ity; mutagenicity	y; reprodu	ctive 1	coxicity)				
Carcino	genicity:			No infor	matic	n available				
Mutage	enicity <i>in-</i>	vitro:		No infor	matic	n available				
Genoto	xicity:			No information available No information available No information available						
Mutage	enicity <i>in-</i>	vivo:								
Germ c	ell mutag	enicity:								
Reprod	Reproductive toxicity:			No infor	matic	n available				
Summa propert	-	valuation	of the CMR	No infor	matic	n available				
11.2. Informa	ation on c	other haza	ırds:							
		oting prop								
11.2.1. LIIUUCII	ne distup	rang prop	Citics.							

SECTION 12. General notes:
12.1. Toxicity

No known endocrine disrupting properties

that affect human health.

Other information:

11.2.2.



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

Acute (short-terr toxicity	n) Do	se Expo		Species	Method	Eval	uation	No	ote
Fish	LC ₅₀	96 ho	ıırc	No information available	-	No inforr available	mation	-	
Crustacea:	EC ₅₀	48 ho	iirc	No information available	-	No inforr available	mation	-	
Algae/aquatic pl	ants IC ₅₀	72 ho	ıırc	No information available	-	No inforr available	nation	-	
Other organisms	-	-		_	-	-		-	
Chronic (long-te toxicity	rm) Do	se Expo		Species	Method	d Evaluation		Note	
Fish	LC ₅₀	96 ho	iirc	No information available	-	No inforr available	mation	-	
Crustacea: EC		48 ho	iirc	No information available	-	No information available		-	
Algae/aquatic pl	Algae/aquatic plants IC ₅₀		ıırc	No information available	-	No information available		-	
Other organisms	-	-		-	-	-		-	
	nce and deg degradation	•				****			
	Degrada	tion half-live	S	Method		E۱	/aluation		Note
Marine water		tion available		No information available		No information available			-
Fresh water		tion available		No information available		No information available			-
Air		tion available		No information av			mation available		-
Soil	No informa	tion available	· 1	No information available		No information available		e	-
Biodegr	adation								
% Degradation		(days)		Method	Eva	aluation	No	ote	
No information available	No available	lo information No.		information available		nformation ble			ailable
12.3. Bioaccu	mulative po								
	-water parti								



Trade name:

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Bioconcentration factor (BCF) Value	-X** Date of compilation: 14 November 2022 Version: 4							
Value Species Method Evaluation Note No information available Species Method Evaluation Chronic toxicity on fish LC ₅₀ No information available No No No No Information available information available available Chronic toxicity on toxi	mation							
No information available No information available No information available No information available No information available								
Available available available available available available available available Chronic ecotoxicity Value Dose Exposure time Species Method Evaluation Chronic toxicity on fish LC50 Information available available available available available Chronic toxicity on FC50 Information information available information information information available information information information information available information information information available information inform								
Value Dose Exposure time Species Method Evaluation Chronic toxicity on fish LC ₅₀ No information available No information available No information available No information information available No information information available								
Value Dose Exposure time Species Method Evaluation Chronic toxicity on fish LC ₅₀ No information available No information available No information available No information available No information information available No information information available								
Chronic toxicity on fish Chronic toxicity on Chronic toxicity on Chronic toxicity on Chronic toxicity on FCro. Chronic toxicity on FCro. No Information								
Chronic toxicity on fish LC ₅₀ information available information available information available information available information information available information informat	Note							
Chronic toxicity on FC _{co} information information information information -								
crustacea (Daphnia) available available available available available								
12.4. Mobility in soil								
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 log Kow Evaporation rate Method Note								



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			•	•	ī	
Soil-wa	ter No availabl	information e	No information available	No information available	No information available	-
Water-a	air No availabl	information e	No information available	No information available	No information available	-
Soil-air	No availabl	information e	No information available	No information available	No information available	-
12.5.	Results of PB	T and vPvB asses	ssment			
	No informati	on available				
12.6.	Endocrine dis	srupting propert	ies			
	No known er	ndocrine disrupti	ng properties that	affect the environm	nent.	
12.7.	Other advers	e effects				
	No informati	on available				
SECTIO	N 13. Disposa	al consideration	s			
13.1.	Waste trea	tment methods				
13.1.1.	Product/Pa	ickaging disposa	l:			
	Submit for Protection.	•	egal person autho	rized by the Ministr	y of Environmental a	and Nature
13.1.2.	Waste code	es/waste designa	ntions according to	D Low:		
	15 01 10*: packaging that contains residual hazardous substances or is contaminated with hazardous substances					
13.1.3.	Waste trea	tment – relevant	information:			
	No informa	ation available				
13.1.4.	Sewage dis	sposal – relevant	information:			
	Waste mus	t not be dispose	d of into the sewa	ge system.		
	Other disno	osal recommend	ations:			
13.1.5.	Other dispo					



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	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:				
		agement Act, Ordinance on Waste Management, Regulation on categories, types te with waste catalog and list of hazardous waste			
SECTIO	N 14. Transport informati	ion			
SECTIO	Transporting/shipment by				
UN num		Not subject to transport regulations			
	per shipping name:	-			
	rt hazard class(es):	-			
Packing		-			
·····	mental hazards:	_			
Special	precautions for user:	-			
•	Transporting/shipment by	rail (RID)			
UN num		Not subject to transport regulations			
UN prop	per shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			
Environi	mental hazards:	-			
Special	precautions for user:	-			
	Transporting/shipment by	r inland waterways (ADN)			
UN num	nber:	Not subject to transport regulations			
UN prop	per shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			
Environi	mental hazards:	-			
Special	precautions for user:	-			
	Transporting/shipment by	r sea (IMDG)			
UN num	nber:	Not subject to transport regulations			
UN prop	per shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			
Environi	mental hazards:	Not subject to transport regulations			



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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:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

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



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	National 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. 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 used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classifi	ication	Classification procedure		
-		-		
16.5.	Relevant H statements (num	ber and full text)		
	H315	Causes skin irritation.		
	H: H319	Causes serious eye irritation.		
	H335	May cause respiratory irritation.		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX:

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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Product code:	PK1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

SECTI	ON 1 IDENTIFICATION (OF THE SUB	STANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	PERIODIC	PERIODIC ACID, 1 % SOLUTION		
	Chemical name:	-			
	Catalogue number:	PK1-OT-X	**		
1.2.	Relevant identified use	es of the sub	stance or mi	xture and uses advised against	
	Uses:		For use w	th special staining kits.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advis	y uses advised against: device, registered at the Agency		ict is intended for use only as an <i>in vitro</i> diagnostic medical gistered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes	
1.3.	Details of the supplier	of the safet	y data sheet		
	Supplier: B		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr		
	National contact:	-	-		
1.4.	Emergency telephone	Emergency telephone number			
	National Protection and Rescue Dire		irectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

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



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

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS					
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
-	-	-	_	-	

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



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	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.		
	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.		
4.3.	Indication of any immediate medical attention and special treatment needed			
	-			

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

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods: Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (see Sect	ion 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 containme	nt 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:	-
6.4.	Reference to other sections	
	-	

SECTIO	ON 7 HANDLING AN STORAGE			
7.1.	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.		
	Measures to prevent aerosol and dust generati	on: Secure proper ventilation.		
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.		
	Other measures:	-		
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	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)			



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Recommendations:	-
Industrial sector specific solutions:	-

8.1. Cont			TROLS/PER	SONAL	PROT	ECTION			
Occu			cupational exposure limit alues/short term values		iological limit values				
						ppm	mg/m³		J
					-	-	No info	ormation available	
Substance name:	-								
EC No:	-		CAS No:	_					
DNEL									
					Inc	dustrial			
Route of exposure:			Acute ect local	effe	Acutect sys		Chronic effect local		Chronic effect systemic
Oral		-		-		-		-	
Inhalation		-		-			-		-
Dermal					-		-		
Critical physic	al parar	neters: s	solubility, fla	mmabili	ty, cor	rosivity:	_		
					Co	nsumer			
Route of exposure:			Acute ect local	effe	Acutect sys			ronic et local	Chronic effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
PNEC									
Environmental protection target				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					
Microorganis	ms in se	wage tr	eatment			No infor	mation avail	able	
Soil (agricultu	ral)					No infor	mation avail	able	



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Air			No information available		
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture relate measures to prevent expeduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to preserve:	revent	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		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) visor.			
8.2.2.2.	Skin protection				
U.Z.Z.Z.			ective gloves must be according to the EU Directive 2016/425/EEC and dard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		ar antistatic clothing made of natural fibers (such as cotton) with long eves (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	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 information available			
8.2.3.	Environmental exposure controls				
	Substance/mixture relate measures to prevent exp		See Section 6		
	Structural measures to preserve:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pr exposure:	event	See Section 6		

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



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Trading name:	PERIODIC ACID, 1 % SOLUTION					
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	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	no odor/no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lower and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

SECTIO	SECTION 10 STABILITY AND REACTIVITY					
10.1. Reactivity: See subsections 10.3 through 10.5.		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



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Trading name:	PERIODIC ACID, 1 % SOLUTION					
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11.1. Information	n on hazard classes as	defined in Reg	ulation (EC) No 127	72/2008			
Acute toxic	ity:						
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposur	e 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 – si	ngle exposure ((STOT SE):				
•	Specifi	c effects	Target	organ		Note	
Oral exposure:	No information a	available	No information		-		
Dermal exposure:	No information a	available	No information available -				
Inhalation exposure:	No information a	available	No information	on available	-		
•	i		i		i		
Respiratory	rirritation:	No info	rmation available				
į · · ·		<u> </u>					
Irritation ar	nd corrosion						
	Exposure time	Species	Evaluation	Method		Note	
Skin irritation:	-	rabbit	-	-	-		
Eye irritation:	-	rabbit	-	-	-		
	:	:	3	:			
Sensitizatio	n						
Dermal exposure:	No information availa	able					
Inhalation exposure:	No information avail	able					
<u> </u>							
Symptoms	related to the physica	l, chemical and	toxicological chara	cteristics			
Oral exposure:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting						
Dermal exposure:	Slight irritation. Af	•	sure, resorption effe		ikely. Lor	ng-term exposure	



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Inhalation exposi	ure:		large amount eezing, heada			adequately vent	ilated perim	eter may cause
Eye exposure:		Direct eye co sensation.	ntact may cau	se slight to	o mod	lerate irritation,	lacrimation a	and burning
Panasta	nd doca	tovicity (cub	acute, subchro	nic chroni	ic)			
Repeate	eu uose	Dose Coxicity (Sub	Exposure time	Species	ic)	Method	Evaluation	n Note
Subacute oral	oral No information available		No information available	No information available		No information available	No informatio available	on -
Subacute dermal	No availa	information able	No information available	No No information		No information available	No informatio available	on -
Subacute inhalation	No availa	information able	No information available	No informati available	_	No information available	No informatio available	on -
Subchronic oral	No information available		No information available	No information available		No information available	No informatio available	on -
Subchronic dermal		ailable		No informati available		No information available	No informatio available	on -
Subchronic inhalation	No availa	information able	No information available	No information available		No information available	No informatio available	on -
Chronic oral	No availa	information able	No information available	No information available		No information available	No informatio available	on -
Chronic dermal	No availa	information able	No information available	No informati available		No information available	No informatio available	on -
Chronic inhalation			No information available	No informati available		No information available	No informatio available	on -
C					TOT :)F).		
Specific	target		y – repeated e pecific effects	xposure (S	101 1		an .	Note
Subacute oral			tion available		No i	Target organs rformation avai	- Note	
Subacute dermal			ition available			nformation avai	_	
Subacute inhalat			tion available No information ava				_	



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.

Other information:

11.2.2.

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

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Trading n	ame:	PERIODIC ACID, 1 % SOLUTION								
Product c	Product code: PK1-OT-X**		Da	Date of compilation:		21 Dec 2022	Version:	4		
Subchronic	oral	No informati	ion available	No inf	orm	nation available	-			
Subchronic	dermal	No informat	ion available	No inf	orm	nation available	-			
Subchronic inhalation No information		ion available	No inf	orm	nation available	-				
Chronic oral No information		ion available	No inf	orm	nation available	-				
Chronic dermal No information		ion available	No inf	orm	nation available	-				
Chronic inhalation No information		ion available	No inf	orm	nation available	-				
CI	MR effects	(carcinogenicity,		y, reproductive to		•				
	arcinogeni			Current studies on test animals did not indicate carcinogenic effects.						
	utagenicit			Current in vitro tests did not indicate mutagenic effects.						
	enotoxicity			No information available						
	utagenicit			Current in vivo tests did not indicate mutagenic effects.						
G	erm cell m	utagenicity:	No inforr	No information available						
Re	eproductiv	e toxicity:	No toxic organs.	ity on reproduct	ive	organs was dete	rmined in re	producti		
Su	ımmary of	evaluation of the	e CMR prope	rties: -						

11.2 In	formation	on other hazards	S:							
11.2.1. Er	ndocrine di	isrupting propert	ies:							
cc	ne substand omponents ndocrine	ce/mixture does i considered disrupting	not contain to have properties							

SECTION 12 ECOLOG	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	-	-			



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Trading name:		PERIODIC ACID, 1 % SOLUTION						
Product code:	PK1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4				
	1	:	l .	l l				

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

12.2. Persistence and degradability

Abiotic degradation

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

Biodegradation

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

12.3.	Bioaccumulative potential						
	Partition coefficient: n-octanol/water (log Kow):						
Valu	re Concentration nH °C Method Evaluat	ion Note					



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

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Trading name:			PERIODIC ACID, 1 % SOLUTION									
Product	t code:	PK1-0	OT-X**		Date	of co	mpilatio	on:	21 Dec	2022	Versio	on: 4
-	No avai	inform lable	nation _		_	No info	ormation le		o inform vailable	ation	-	
	р:		(, /DCE									
V/a		ntration	factor (BCF Species)		10thor			Evaluation			Note
Value No information No available availab		inforn	mation No informavailable		rmatic	rmation No in		Evaluation No information available		No inforr available		
	Chronic e	cotoxici	ty									
	Value		Dose		osure ime	Spe	ecies	Мє	ethod	Eva	luation	Note
Chronic	toxicity or	n fish	LC ₅₀	No infor	mation able	No informavaila	mation able	No infor	mation able		No information available	
	toxicity or ea (<i>Daphni</i>		EC ₅₀	No infor avail	mation able	No infori availa	mation able	No infor availa	mation able	No info	o information -	
12.4.	Mobility	n soil										
			ed distribut	ion in e	environm	ental o	ompart	ments	<u> </u>			
	No inforr	nation av	vailable									
	Surface to	ension:										
	Value		°C	С	oncentra	tion		Metl	nod		N	ote
	No No information available available			informat ailable	tion	No info		on	-			
	Adsorption	on / desc	orption									
Transpo	rt	A/D coet	fficient	lo	og Kow	Ev	/aporatio	on rate	e	Method		Note
Soil-wat	No No		nformation	No ir availa	nformatic able		o inform ailable	ation	No ir	nformation	on -	



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Trading name:		PERIODIC ACID, 1 9	6 SOLUTION		
Product code:	PK1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Produci	. code. PK	.1-Ο1-λ	Date o	i compliation. 2	21 Dec 2022	version. 4
			·			
Water-a	ir No available	information	No information available	No information available	No information available	-
Soil-air	No available	information	No information available	No information available	No information available	-
12.5.	Results of PBT	and vPvB asses	ssment			
	according to R	EACH Article 5	•	n Delegated regula	to have endocrine o tion (EU) 2017/2100	disrupting propertie 0 or Commission
12.6.	Endocrine disru	upting propert	ies			
	according to R	EACH Article 5		n Delegated regula	to have endocrine o tion (EU) 2017/2100	disrupting propertie 0 or Commission
12.7.	Other adverse	effects				
	No information	n available				
SECTION	N 13 DISPOSAI	L CONSIDERA	TIONS			
13.1.	Waste treatm	nent methods				
13.1.1.	Product/Pack	kaging disposa	l:			
	Submit for di Protection.	isposal to the l	egal person autho	orized by the Minist	ry of Environmenta	l and Nature
13.1.2.	Waste codes	/waste designa	ations according to	o Law:		
	No informati	on available				
13.1.3.	Waste treatm	nent – relevant	information:			
	No informati	on available				
13.1.4.	Sewage disp	osal – relevant	information:			
. 3. 1. 1.			d of into the sewa	ige system.		
				<u> </u>		
13.1.5.	Other dispos	al recommend	ations:			



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Trading name:		PERIODIC ACID, 1 % SOLUTION						
Product code:	PK1-OT-X**	Date of compilation: 21 Dec 2022	Version: 4					

	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:		
	-		
SECTION	14 TRANSPORT INFORMATION	ON	
٦	Fransporting/shipment by road	(ADR)	
UN numb	er:	Not subject to transport regulations.	
UN prope	er shipping name:	-	
Transport	: hazard class(es):	-	
Packing g	roup:	-	
Environm	entally hazardous:	-	
Special pr	recautions for user:	-	
7	Fransporting/shipment by rail (F	RID)	
UN numb	oer:	Not subject to transport regulations.	
UN prope	er shipping name:	-	
Transport	hazard class(es):	-	
Packing g	roup:	-	
Environm	entally hazardous:	-	
Special pr	recautions for user:	-	
I	nland waterway transport (ADN		
UN numb	oer:	Not subject to transport regulations.	
UN prope	er shipping name:	-	
Transport	: hazard class(es):	-	
Packing g	roup:	-	
Environm	entally hazardous:	-	
Special pr	recautions for user:	-	
Transporting/shipment by sea (IM		MDG)	
UN number:		Not subject to transport regulations.	
UN proper shipping name:		-	
Transport hazard class(es):		-	
Packing g	roup:	-	
Environm	entally hazardous:	-	
Special precautions for user:		-	



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Trading name:	PERIODIC ACID, 1 % SOLUTION			
Product code:	PK1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

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		
	9	dangerous substances, mixtures and articles (Annex XVII); 199/13/EC about limitation of emissions of volatile organic compounds (VOC-		
	guideline)			
		Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and		
	National legislation:	on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act		



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Trading name:	PERIODIC ACID, 1 % SOLUTION			
Product code:	PK1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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

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Trading name:	SILVER NITRATE SOLUTION, STABILIZED				
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTI	ON 1: Identification of	the substance	e/mixture	e and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SILVER NITI	RATE SOL	UTION, STABILIZED	
	Chemical name:	-			
	Catalogue number:	SNS-OT-X*	*		
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with Grocott kit, stabilized and P.A.S.M. /Jones kit, stabilized.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:	Telefax.:		+385 1 2404039	
	e-mail of competent p	e-mail of competent person:		msds@biognost.hr	
	National contact:		-		
1.4	Emergency telephone number				
	National Protection a	nd Rescue Dire	ectorate:	112	
	Medical information:	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 Re	egulation (EC) No 1	272/2008 (CLP)		
	Hazard class and cate	egory code:	Hazard statements*:		
	Aquatic Chronic 3		H412		
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:	SILVER NITRATE	SOLUTION, STABILIZED		
	Identification number: -				
	Authorization number: -				
	Hazard pictograms:	-			



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

	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 disrupti	ng 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. Cor	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
7761-88-8/ 231-853-9/ 047-001-00-2	-	0.4 – 0.5 %	silver nitrate	Ox. Sol. 2; H272 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		

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 oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.		
	Self-protection of the first aider:	-		
4.2	Most important symptoms and effects, both acute and delayed			



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Trading name:		<u> </u>			
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	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	medical attention and special treatment needed
	-	

SECTI	ECTION 5. Firefighting measures						
5.1	Extinguishing media	Extinguishing media					
	Suitable extinguishing media: Water spray, foam, dry powder, CO ₂ or alcohol resistant foam.						
	Unsuitable extinguishing media: Water with full jet.						
5.2	Special hazards arising from the substance or mixture						
	Hazardous combustion products: Nitrogen oxides (NOx). During heating or in case of fire poisonous gases are produced.						
5.3	Advice for firefighters						
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.						
5.4	Additional information						
	Do not contaminate the environm	ent 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. Do not smoke.				
	Emergency procedures: Mark the area using proper signs.				
6.1.2.	For emergency responders:				
	Use protective equipment; in ca (see Section 8).	se of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for conta	inment and cleaning up			



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Trading name:	SILVER NITRATE SOLUTION, STABILIZED				
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using 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.			

SECTION	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	on:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:		ghtly closed and upright set containers at ures ranging from +2 to +8 °C.			
	Packaging materials:	Manufactu containers	nufacturer's original packaging. Avoid metal ntainers.			
	Requirements for storage rooms and vessels:	Keep away tightly clos	y from food and drink. Keep the containers sed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	ace the unused material in the storage room of use empty containers for storing other Do not store with incompatible materials on 10).				



Marine sediments

Soil (agricultural)

Microorganisms in sewage treatment

Food chain

SAFETY DATA SHEET

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Trading name:			SILV	ER NI	TRATE S	OLUTIO	N, ST	ABILIZED		
Product code:	SNS-OT	-X**	Date o		of compilation:		21 De	ec 2022	Version:	4
7.3 Specific er										
Recomme					-					
Industrial	sector spe	cific solut	ions:		-					
SECTION 8. Expos		ols/perso	onal protec	tion						
8.1 Control pa	arameters	l								
Substance		C A	S No		pational e ues/short t			Piolo	gical limit values	_
Substance	;	CA	3 110		ppm	mg/r		ыою	gicai iiiiii vaides	
Silver (as Ag)			_	P	-	0.01			_	
3.1ver (a37.tg)	silver (as Ag)					0.0				
Substance name:	_									
EC No:	-	CAS No	: -							
DNEL										
				Ind	ustrial					
Route of	Acı	ıte	Acu	te		Chroni	С		Chronic	
exposure:	effect	local	effect sy	stemic	nic effect local				effect systemic	
Oral	-		-		-			-		
Inhalation	-		-		-			-		
Dermal	-		-		-			-		
Critical physical par	rameters: s	solubility,	flammabili	ty, corr	osivity:	-				
				Con	sumer					
Route of	Acı		Acu	te		Chroni			Chronic	
exposure:	effect	local	effect sy	stemic		effect lo	cal		effect systemic	
Oral	-		-		-			-		
Inhalation	-		-		-			-		
Dermal	-		-		-			-		
PNEC										
Environmental prot	tection tar	get			PNEC					
Fresh water					no information available					
Freshwater sedime	nts				no information available					
Marine water			Marine water			no information available				

no information available

no information available

no information available

no information available



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Trading name:	SILVER NITRATE SOLUTION, STABILIZED				
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Air			no information available	
8.2	Exposure controls			
8.2.1.	Appropriate engineering controls			
	Substance/mixture related measur 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 prever exposure:	nt	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent exp	oosure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection			
	Hand protection:	Protec	tive nitrile gloves, >0.11 mm thick (EN 374).	
	Other skin protection:		antistatic 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 controls			
	Substance/mixture related measures to prevent exposure:	See Se	ction 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 Se	ction 6	

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties



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Trading name:	SI	LVER NITRATE SOLUTIO	N, STABILIZED	_	
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	No 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
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
.2	Other information		

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

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



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							Pag	ge 8 of 1	6
Trading name:		SILVEF	R NITRATE S	OLUTIO	N, STA	BILIZED			
Product code:	SNS-OT-X**	t Dat	te of compila	ompilation: 21 Dec 20			Ve	rsion:	4
Route of exposure:	Method	Species		ose LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure time		Results	
Oral:	-	No information available	-			No information available		-	
Dermal:	-	No information available	-		No in availa	formation ble		-	
Inhalation:	-	No information available	-		No in availa	formation ble		-	
Specific ta	arget organ toy	icity – single expos	SUITE (STOT SE	١٠					
эресте и		pecific effects	3410 (3101 32)	Target	organ			Note	
Oral:	No informat		No inf	ormation		e -			
Dermal:	No informat			ormation					
Inhalation:	No informat			ormation					
mindation.	Tto illioilliat	- Ion available	110 1111	Ormation	avanab				
Aspiration	hazard.	Nc	o information a	availahle					
Aspiration	T Hazara.	140	, intormation	avanabic.					
Irritation a	and corrosion								
		sure time	Species	Evalua	tion	Method		Note	
Skin corrosion/irritation	_	-	- Брилог	_	-		-		
Serious eye damage/irritation	-	-			-		_		
Sensitizati	ion								
Skin sensitization:	-								
Respiratory sensitiz									
respiratory serisitiz	Editori.								
Symptom	s related to the	e physical, chemica	l and toxicolo	gical cha	racteristi	CS			
Oral exposure:	No inform	nation available.							
Dermal exposure:	No inform	nation available.							
Inhalation exposur	e: No inform	nation available.							
Eye exposure:	No inform	nation available.							
Donostad	doso tovisity (nic chronis						
кереатеа	dose toxicity (s	subacute, subchror	nic, chronic)						
	Dose	Exposure time	Species	Metho	od	Evaluatio	n	Note	



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Trading name:	SI	LVER NITRATE SOLUTIO	N, STABILIZED		
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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



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Trading name:	SI	LVER NITRATE SOLUTIO	N, STABILIZED		
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	CMR effects (carcinogenicity; mutagenicity; re	eproductive toxicity)
	Carcinogenicity:	No information available.
	Mutagenicity in vitro:	No information available.
	Genotoxicity:	No information available.
	Mutagenicity in vivo:	No information available.
	Germ cell mutagenicity:	No information available.
	Reproductive toxicity:	No information available.
	Summary of evaluation of the CMR properties:	No information available.
11.2.	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	No known endocrine disrupting properties that affect human health.	
11.2.2.	Other information:	
	-	

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



No information

available

No

available

information

No information

available

No information

available

SAFETY DATA SHEET

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

Trading name:			S	SILVI	ER NITRATE S	OLUTI	ON, ST	ABILIZE	D		
Product code:	S	NS-OT-X*	*	D	ate of compilat	tion:	21 De	ec 2022		Version:	4
Crustacea:		EC ₅₀	48 hours		No information available	No inforr availa	nation ible	No inform availa		_	
Algae/aquatic p	lants	IC ₅₀	72 hours		No information available	No inforr availa	mation ible	No inform availa		-	
Other organisms	S	-	-	-	-	-		-		-	
12.2 Persiste Abiotic	degra	nd degrada dation gradation	•		Method		Evaluatio	n		Note	
Marine water	No ir	nformation	available		information ilable	No in availa	formatio ıble	n	-		
Fresh water	No ir	nformation	available		information ilable	No information available		n	-		
Air	No ir	No intormation available			information ilable	No information		n	-		
Soil	No ir	nformation	available		information ilable	No information		n	-		
Biodeg	radatio	on									
% Degradatio			(days)		Method		Evaluatio	n		Note	
No information available		No i available	nformation		information ilable	No in availa	formatio Ible	n	No ir availa	nformation able	
12.3 Bioaccu	umulat	tive potent	ial								
Octano	l-wate	er partition	coefficient (l	og K	ow)						
Value	Conce	entration	рН	°C	Method		Evalu	ation		Note	
				•	-	-	-		-		
Riocon	Cantra	tion factor	(BCE)								
Value	centra	Spec			Method		Evaluati	on		Note	
. 3140		5766									



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Trading na	ame:		SILVER N	ITRATE SO	LUTIO	N, STABILI	ZED				
Product co	ode:	SNS-OT-X**	Date o	of compilation	on:	21 Dec 20	22	Version:	4		
Ch	ronic eco	toxicity									
V	'alue	Dose	Exposure time	Species	Meth	nod Ev	/aluatio	n Not	e		
Chronic tox	icity on fis	sh LC ₅₀	information i	No information available	No inform availab		ormatio ilable	n -			
Chronic tox crustacea (<i>L</i>	-	EC ₅₀	information i	No information available	No inform availab		ormatio ilable	n -			
	obility in s										
	•	edicted distributi	on in environme	ntal compart	ments:						
No	No information available										
Su	rface tens	ion:					ı				
	Value °C		Concentration	on	Method information ilable			Note			
	ormation ailable	No information available					-				
Ad	Isorption /	desorption	i .	ì		-					
Transport	1	O coefficient ry's constant	log Kow	Evaporati	on rate	Meth	od	Note			
Soil-water	No availab	information le	No information available	No inform available	nation	No inform available	nation	-			
Water-air	No availab	information le	No information available	No inform available	nation	No inforn available	nation	-			
Soil-air	No availab	information le	No information available	No inform available	nation	No inform available	nation	-			
12.5 Re	sults of PE	BT and vPvB asses	ssment								
		ce/mixture conta	•			•			and		
to	xic (PBT), c	or very persistent	and very bioaccu	umulative (vP	vB) at le	evels of 0.1%	6 or hig	her.			



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Trading name:		ON, STABILIZED			
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

12.6.	Endocrine disrupting properties				
		contain components considered to have endocrine disrupting properties or Commission Delegated regulation (EU) 2017/2100 or Commission els of 0.1% or higher.			
:					
12.7.	Other adverse effects				
	No information available				
SECTIO	N 13. Disposal considerations				
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposal:				
	Submit for disposal to the legar Protection.	al person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste designatio	ns according to Law:			
	Packaging that contains residu	al hazardous substances or is contaminated with hazardous substances			
13.1.3.	Waste treatment – relevant inf	ormation:			
	No information available				
13.1.4.	Sewage disposal – relevant inf	ormation:			
	Waste must not be disposed o	f into the sewage system.			
	:				
13.1.5.	Other disposal recommendation	ons:			
	authorized by the ministry in c	's remains into the sewage system. Submit the remains to the collectors harge. Do not dispose of the packaging into the sewage system. Submit s authorized by the ministry in charge.			
13.1.6.	Relevant Community provision	ns:			
	-				
SECTIO	N 14 TRANSPORT INFORMATIO	DN			
	Transporting/shipment by road	(ADR)			
UN num	ber:	Not subject to transport regulations			
UN prop	er shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			



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Trading name:		SILVER NITRATE SOLUTION, STABILIZED					
Product code: SNS-OT-X**			Date of compilation:	21 Dec 2022	Version:	4	
Environmentally h	azardous:	-					
Special precaution	ns for user:	-					
Transpor	ting/shipment by rail (R	ID)					
UN number:		Nc	t subject to transport regu	lations			
UN proper shippi	UN proper shipping name:						
Transport hazard	class(es):	-					
Packing group:		-					
Environmentally h	azardous:	-					
Special precaution	ns for user:	-					
Inland wa	aterway transport (ADN))					
UN number:		Nc	t subject to transport regu	lations			
UN proper shippi	ng name:	-					
Transport hazard	class(es):	-					
Packing group:		-					
Environmentally h	azardous:	-					
Special precaution	ns for user:	-					
Transpor	ting/shipment by sea (II	MDG)				
UN number:		Nc	t subject to transport regu	lations			
UN proper shippiı	ng name:	-					
Transport hazard	class(es):	-					
Packing group:							
Environmentally hazardous:		-					
Special precaution	ns for user:	-					
	according to Annex II B and the IBC code:	-					
T	+:	۸٥.	TI/IATA DCD)				

of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by a	ir (ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	



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Trading name:	SILVER NITRATE SOLUTION, STABILIZED				
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

15.1	Safety, health and environ	mental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or restr	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 199 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessmen	nt
	None	

SECTION 16. Other information			
16.1	Indication of changes:	-	



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Trading name:	SI	LVER NITRATE SOLUTIO	UTION, STABILIZED		
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	,						
16.2	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 an source of data:		-				
16.4.	16.4. Classification and procedure 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)				
Classifi	catio	า	Classification procedure				
-			-				
16.5.	Rel	evant H statements (num	per and full text)				
		272	May intensify fire; oxidiser.				
		314	Causes severe skin burns and eye damage.				
	Н:	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.	Tra	ining advice:	-				
16.7.	Fur	ther 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				
10.7.	rui	are information.	instructions for use or improper use of the product described in this material safety data sheet.				

1	ANNEX: Exposure scenario resulting to chemical safety assessment
-	-



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

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Trading name:	S	SODIUM THIOSULFATE, 2% SOLUTION			
Product code:	NT2-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTION	ON 1. Identification of	the substa	nce/mixture a	and of the company/undertaking
1.1.	Product identifier			
	Trading name:	SODIUM	1 THIOSULFATE	, 2% SOLUTION
	Chemical name:	-		
	Catalogue number:	NT2-OT	-X**	
1.2.	Relevant identified use	es of the su	ubstance or mix	cture and uses advised against
	Uses:		For use with s	special staining kits.
	Uses advised against:		Only the iden	ntified uses are advised.
	Reason why uses advis	sed	device, regist	is 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 safe	ety 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:	Medical information:		+385 1 2348 342
	Other information:			-

SECTIO	ION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	ation (EC) No 12	272/2008 (CLP)		
	Hazard class and category	y code:	Hazard statements*:		
	Not identified as hazardous subs	tance.	-		
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:	SODIUM THI	OSULFATE, 2% SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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Trading name:	SODIUM THIOSULFATE, 2% SOLUTION				
Product code:	NT2-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 assessn PBT or a vPvB.	nent : According to the results of its assessment, this substance is not a	

SECTION 3. Co	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
7772-98-7/ 231-867-5/ -	-	2 %	sodium thiosulphate	not classified		

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



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Trading name:	SODIUM THIOSULFATE, 2% SOLUTION				
Product code:	NT2-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. According to our findings, chemical, physical and toxicological properties of		
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		
4.3.	Indication of any immediat	e 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 Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the s	ubstance or mixture			
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	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 (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



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Trading name:	SODIUM THIOSULFATE, 2% SOLUTION				
Product code:	NT2-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

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



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Trading name:		SODIUM THIOSULFATE	, 2% SOLUTION	
Product code:	NT2-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

-		ols/person	ai protec	uon				
8.1. Control para	meters							
Substance					cupational exposure limit alues/short term values		Biological limit values	
				ppm	1	mg/m³		
-		-		-		-	No information available	
Substance - name:								
EC No: -		CAS No:	-					
DNEL			•					
				Indust	rial			
Route of	A	Acute		Acute		Chronic	Chronic	
exposure: effe		ect local	effe	ct system	ic	effect local	effect systemic	
Oral -			-			-	-	
Inhalation -			-			-	-	
Dermal	-		-			-	-	
Critical physical para	meters: s	solubility, fla	ammabili	ty, corrosi	vity:	-		
				Consu	mer			
Route of	A	Acute		Acute		Chronic	Chronic	
exposure:	effe	ect local	effect sys		ic	effect local	effect systemic	
Oral	-		-			-	-	
Inhalation	-		-		-		-	
Dermal	-		-			-	-	
PNEC								
Environmental protection	ction tar	get		PN	PNEC			
Fresh water				No	No information available			
Freshwater sediment	S			No	No information available			
Marine water				No	No information available			
Marine sediments				No	No information available			
Food chain				No	No information available			
Microorganisms in se	ewage tr	eatment		No	inform	ation available		
Soil (agricultural)				No	inform	ation available		
Air					No information available			



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Trading name:	S	ODIUM THIOSULFATE	, 2% SOLUTION		
Product code:	NT2-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to preexposure:	event	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 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:		tive gloves must be according to the EU Directive 2016/425/EEC and and 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	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:		See Section 6		
	Structural measures to preexposure:	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	ECTION 9. Physical and chemical properties		
9.1.	Information on basic physical and chen	nical 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
Lower 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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Oral exposure:	oute of Method xposure:		Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	e Results
Dormal ovnocuro	No information available	-	LD ₅₀	_	-
Dermal exposure: No information available		-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	_	-
Specific targ	get 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:	No information	available	No information available	-	
Irritation and	d corrosion				
Irritation and	d corrosion			Meth	
	Exposure time	Species	Evaluation	od	Note
Skin irritation:	-	-	-		
Eye irritation:	-	-	-		
Sensitization	า				
Dermal exposure:	No information ava	ilable			
Inhalation exposure:	No information ava	ilable			
ехрозите.		al, chemical an	d toxicological characterist	ics	
•	elated to the physic				
Symptoms r	No information a	vailable			
Symptoms r Oral exposure:					
•	No information a	vailable			



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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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CHIOHIC	c inhalation	No informa	ition available	No information available	-
	CMR effects ((carcinogenicity	y, mutagenicity, ro	eproductive toxicity)	
	Carcinogenic	ity:	Based on av	ailable data, the classification criter	ria are not met.
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criter	ria are not met.
	Genotoxicity:		Based on av	ailable data, the classification criter	ria are not met.
	Mutagenicity	in-vivo:	Based on av	ailable data, the classification criter	ria are not met.
	Germ cell mu	ıtagenicity:	Based on av	ailable data, the classification criter	ria are not met.
	Reproductive	toxicity:	Based on av	ailable data, the classification criter	ria are not met.
	Summary of 6	evaluation of ti	he CMR propertie	· -	
	Summary of 6	evaluation of th	ne CMR propertie	25: -	
11.2		on other hazard		PS: -	
11.2 11.2.1.	Information c		ds:	PS: -	
	Information of Endocrine dis The substance components endocrine according to Commission 2017/2100 o	on other hazard	ds: rties: s not contain to have properties cle 57(f) or ulation (EU) Regulation	PS: -	
	Information of Endocrine distribution of Endocrine components endocrine according to Commission 2017/2100 of (EU) 2018/60	on other hazard srupting prope e/mixture does considered disrupting o REACH Artic Delegated reg or Commission 05 at levels	ds: rties: s not contain to have properties cle 57(f) or ulation (EU) Regulation	PS: -	

SECTION 12. Ecologi	SECTION 12. Ecological information									
12.1. Toxicity										
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC ₅₀	96 hours	No information available	No information available	-	-				
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-				
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-				
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. Persi	.2. Persistence and degradability									
Abiotic degradation										
	Degradation half-lives	Method	Evaluation	Note						
Marine water	No information available	No information available	No information available	-						
Fresh water	No information available	No information available	No information available	-						
Air	No information available	No information available	No information available	-						
Soil	No information available	No information available	No information available	-						

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

12.3.	Bioaccumulative potent	ial				
	Partition coefficient: n-c	ctanol/wa	iter (log	Kow):		
Valu	e Concentration	рН	°C	Method	Evaluation	Note
-	No information available	-	-	No information available	No information available	-

Bioconcentration factor (BCF)



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\	Value		Species	M	ethod	Evaluation		Note	
		No information available		on No inform			No information available		ilable
	Chronic e	cotoxic	ity						
	Value		Dose	Exposure time	Species	Method	Evaluat	tion	Note
Chroni	Chronic toxicity on fish LC ₅₀		No information available	No informatio available	No n information available	No inform available		-	
	c toxicity on cea (<i>Daphnic</i>		EC ₅₀	No information available	No informatio available	No n information available	No inform available	nation	-
12.4.	Mobility in								
	Known or	predict	ted distributi	on in environn					
		····			ientai comp	artments:			
	No inform	····			ientai comp	artments:			
	No inform	nation a	vailable		ientai comp	artments:			
		nation a		Concentra		Method		N	ote
	Surface te	nation a ension: N	vailable °C		ation		able -	N	ote
	Surface te Value No information	nation a ension: N	°C o formation	Concentra No informa	ation	Method	able -	N	ote
	Surface te Value No information	ension a	°C o formation vailable	Concentra No informa	ation	Method	able -	N	ote
Transp	Surface te Value No informatio available Adsorptio	ension a ension: Non in av	°C o formation vailable	Concentra No informa	ation No	Method	able -		ote
Transp Soil-wa	Surface te Value No information available Adsorption ort H	on / des A/D coelenry's c	°C o formation vailable orption	Concentra No informa available	ation No	Method information avail poration rate rmation		hod	
	Surface te Value No information available Adsorption ort Hater No avail	on / des A/D coe lenry's c able	°C oformation vailable orption efficient constant	Concentra No informa available log Kow No informati	etion No Eva on No info	Method information avail coration rate rmation e rmation	Met No inform	hod	



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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
	No information available
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	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.
	The same and the same and consider of the same and considerate
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:
	_



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SECTION 14. Transport information	
Transporting/shipment by roa	ad (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	I (RID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (AI	ON)
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	a (IMDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air	(ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-



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Special precautions for us	ser:	-
Further information:	-	

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorization and/or rest	rictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	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)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessme	ent				
	None					

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



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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 (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.

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Exposure scenario resulting to Chemical safety assessment

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