

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	

SECTI	ON 1: Identification of	the substan	ce/mixture a	nd of the company/undertaking	
1.1.	Product identifier				
	Trade name:	BORAX, S	BORAX, SOLUTION		
	Chemical name:	-			
	Catalogue number:	BM-X**			
1.2.	Relevant identified use	es of the sub	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	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone numbers			
	National Protection ar	nd Rescue D	irectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTION 2. HAZARDS IDENTIFICATION					
2.1.	Classification of the substance or	r mixture			
2.1.1.	Classification according to Regul	ation (EC) No 127	/2/2008 (CLP)		
	Hazard class and catego	ry code:	Hazard statement*:		
	Repr. 1B H360FD				
2.1.2.	Additional information				
	-				
* For fu	ll text of Hazard- and EU Hazard-s	tatements: see SE	CTION 16		
2.2.	Label elements				
	Product identification: BORAX, SOLUTION				
	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 meas	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				
	Use a self-contained open-circuit con	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 ec	quipment 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 the members without protective equipment. Do not breathe in var ensure adequate ventilation and avoid contact with skin and ey 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 precautions:				
	Do not dispose of in sewage Protection and Rescue Direc	e, drainage system and waterways. In case of large spillage contact National ctorate (NPRD) on 112.			
6.3.	Methods and materials for o	containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
6.3.2.	Cleaning up:	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	ION 7. Handling and storage						
7.1.	Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire:	asures to prevent fire:					
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.					
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.				
	Other measures:		-				
7.1.2.	Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. Tho	roughly wash	hands after work and before eating.				
7.2.	Conditions for safe storage, including any incomp	atibilities					
	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:	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:	-

SECTION 8. I	Exposur	e contr	ols/persona	l protec	tion				
8.1. Con	trol para	meters							
Substance CAS No				Occupational exposure limit values/short term values		Bic	Biological limit values		
					ppm	mg	g/m³		
-			-		-		-	-	
Substance:	_								
EC No:	-		CAS No:	-					
DNEL	1		1	i					
					Industrial				
Route of expo	osure:		te effect local		Acute effect systemic			ic effect ocal	Chronic effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
Critical physic	cal parar	neters: s	solubility, fla	mmabili	ty, corrosivity:		-		
					Consumer				
Route of expo	osure:		te effect local		Acute effect systemic			iic effect ocal	Chronic effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
PNEC									
Environmenta	al protec	tion tar	get		PNEC				



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er	No information available
er sediments	No information available
ater	No information available
diments	No information available
n	No information available
anisms in sewage treatment	No information available
ultural)	No information available
	No information available
	· ·
Exposure controls	
Appropriate engineering controls	5
Substance/mixture related measures to prevent exposure during identified uses:	Use personal protective equipment. Do not eat, drink or smoke in the workspace.
Structural measures to prevent exposure:	No information available
Organisational measures to 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.
Personal protection equipment:	
Eye and face protection:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU)
Skin protection	
Hand protection:	Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. 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
	r sediments ater diments n anisms in sewage treatment ultural) Exposure controls Appropriate engineering controls Substance/mixture related measures to prevent exposure during identified uses: Structural measures to prevent exposure: Organisational measures to prevent exposure: Technical measures to prevent exposure: Personal protection equipment: Eye and face protection: Skin protection



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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.				
			Where risk assessment shows air-purifying respirators are				

		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

9.1.	Information on basic physical and chemic	al 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
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available



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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		
	-		

SECTIC	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	N 11. Toxi	cological information	on				
11.1.	Informatio	on on toxicological e	ffects				
	Acute toxi	icity:					
Route of exposure		Method	Species	Effective LD ₅₀ /LO ATE _m	C ₅₀ or	Exposure time	Results
Oral:		OECD Test Guideline 401	rat	LD ₅₀	i	No nformation available	>2.500 mg/kg (disodium tetraborate)
Dermal:		No information available	rabbit	LD ₅₀	i	No nformation available	>2.000 mg/kg (disodium tetraborate)
Inhalatio	on:	No information available	rat	LC ₅₀	4	4 h	>2.12 mg/l (disodium tetraborate)
	Specific ta	rget organ toxicity -	single expos	ure (STOT-S	SE):		
		Specif	ic effects		Targe	et organ	Note
Oral:		No information av	ailable	М	lo informat	ion available	-
Dermal:		No information av	ailable	Ν	No information available		-
Inhalatio	on:	No information av	ailable	R	espiratory	system	-



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Aspirat	ion hazard:		-				
Irritatio	n and corrosio	n					
		Exposure time	Species	Evaluatio n	Metho	d	Note
Skin corrosion/ii Serious eye damage/irritatic				-	-	-	
Sensitiz	zation						
Skin sensitizatio	n: No ir	nformation availab	le				
Respiratory sensitization:	No ir	nformation availab	le				
	ł						
Sympto	oms related to	physical, chemical	, and toxico	ological prope	erties		
Oral exposure:	heart/circ ventricula of cardiac		ch as vasoc gh cardiac	lilation (flush) sensitization)	, hypotens , danger of	ion, arrhyth central res	
Dermal exposur	e: Causes sk dry skin.	in irritation, redne	ess, swelling	g. Prolonged o	or repeated	l contact ca	uses defatting and
Inhalation exposure:	breathing		High conce	ntration vapo	or inhalatio	n may cause	oat, cough, difficul headache, malaise orders.
Eye exposure:		ritate eyes. Splashi sion, photophobia		use irritation a	and rednes	s, lacrimatic	n, pain, swelling,
Repeat	ed dose toxicit	y (subacute, subcl	hronic, chro	onic)			
j 1	Dose	Exposure time	Specie		Method	Evaluatio n	Note
Subacute oral	No informa available	ation No informatio available	n No availab	information ble	No informa tion availabl e	No informati on available	-



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



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						• · · · · · · · · · · · · · · · · · · ·		
Subacu	te oral		No information	n available	No information available	-		
Subacut	te dermal		No information	ı available	No information available	-		
Subacu	te inhalatior	١	No information	ı 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 inhalati	on	No information	n available	No information available	-		
Chronic	oral		No information	n available	No information available	-		
Chronic	dermal		No information	ı available	No information available	-		
Chronic	inhalation		No information	n available	No information available	-		
	CMR effec	ts (carcinogeni	city, mutagenici	ty, reproductive	e toxicity)			
	Carcinogenicity:			No information available				
	Mutagenic	ity <i>in-vitro</i> :		No information available				
	Genotoxic	ty:		No information available				
	Mutagenic	ity <i>in-vivo</i> :		No information available				
	Germ cell	mutagenicity:		No information available				
	Reproduct	ive toxicity:		May damage the unborn child. May damage fertility.				
	•							
	Summary properties		of the CMR	No information available				
	-							
11.2.	Informatio	n on other haz	ards:					
11.2.1.	Endocrine	disrupting pro	perties:	- i				
	The substance/mixture does not co components considered to have endo disrupting properties according to RI Article 57(f) or Commission Delec regulation (EU) 2017/2100 or Commi Regulation (EU) 2018/605 at levels of 0.1 higher.			crine EACH Jated ssion				
11.2.2.	Other info							
		t of our knowle / investigated.	edge, the chemi	cal, physical, ar	nd toxicological properties l	nave not been		

SECTION 12. Ecologi	cal inform	nation				
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
	r ersisteriee and degradability

	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	-

Diadaaradatian
Biodegradation

ыоцедта	auation					
% Degradation	Time (days)	Method	Evaluation	Note		
-	No information available	No information available	No information available	-		
12.3. Bioaccumulative potential						



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												ruge is e	
Trade r	name	•					BORAX,	SOLU	ITION	I			
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-													
	Octa	nol-w	ater partition	coeffic	cient (log Kov	v)						
Value	e	Cor	ncentration	p⊦	-	°C	Method		E	valuation		No	te
-		No availa	information ble	-		_	No informationavailable	on	-			-	
			· _										
		oncen	tration Facto										
Va	alue		Spe	cies			Method		Ev	aluation		Note	9
-			-			No inf	ormation avai	lable	-		-		
	Chro	onic ec	otoxicity										
	Val	ue	D	ose	-	posure time	Specie	es	Me	ethod	Eva	luation	Note
Chronic	toxici	ity on	fish LC ₅₀)	No infor availa	mation able	No inform available	nation	No infor avail	mation able	No inforr availa	nation ble	-
Chronic crustace		-	EC ₅₀)	No infor availa	mation able	No inform available	nation	No infor avail	mation able	No inforr availa	nation ble	-
12.4.	Mab		aoil										
12.4.		oility in		tributio			nontal compo	rtua ant					
			ation availab		n m e	INTON	mental compa	rtment	.5.				
				e									
	Suna	ace ter	ision:										
		Va	lue		°C		Concen	tration			Metho	d	Note
	No avail		information	No availa		rmation	No informa available	tion		No infor	mation	ı available	-
				<u> </u>									
	Adso	· ·	n / desorption	n									
Transpo	ort		D coefficient iry's constant	-	log	g Kow	Evapora rate			Method	t	Ν	ote



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Soil-Wa	ater No ava	information ilable	No information available	Information		No information available	-		
Water-A	Air No ava	information ilable	No information available	No informa available		No information available	-		
Soil-Air	. No ava	information ilable	No information available	No informa available		No information available	-		
12.5.		of PBT and vPvB as							
			ntains no component ent and very bioaccur				t, bioaccumulative and higher.		
	x	,, , , ,	, ,		,		<u> </u>		
12.6.	Endocrin	e disrupting prop	erties						
				ts conside	red to	be either persisten	t, bioaccumulative and		
			ent and very bioaccur			-			
12.7.	Other ad	verse effects							
	Discharg	e into the environ	ment must be avoide	ed.					
SECTIO	N 13. Dis	posal considerati	ions						
13.1.	Waste	processing metho	ods						
	8								
13.1.1.	Produc	t/Packaging dispo	osal:						
	Submi [.] Protec	•	ne legal person autho	orized by t	he Miı	nistry of Environmer	ntal and Nature		
13.1.2.			gnations according to						
	Dispos	al must be made a	according to official r	regulation	S.				
13.1.3.	Waste	tretment – releva	nt information						
	No info	ormation available							
13.1.4.	Sewag	e disposal – releva	ant information.						
10.1.7.			osed of into the sewa	ige system	۱.				
	:			-					
13.1.5.	Other	disposal recomme	endations:						



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authori the pac	zed by the ministry	duct's remains into the sewag in charge. Do not dispose of ctors authorized by the minis	f the packaging into the s	sewage system. Submit				
	nt Community prov	isions:						
	51	cording to official regulation	 IS.					
SECTION 14. Trai	nsport informatio	n						
	ting/shipment by ro							
UN number:		Not subject to transpo	ort regulations.					
UN proper shippir	ng name:	-						
Transport hazard	class(es):	-						
Packing group:		-						
Environmental ha	zards:	-						
Special precaution	ns for user:	-						
Transpor	ting/shipment by ra	ail (RID)						
UN number:		Not subject to transpo	Not subject to transport regulations.					
UN proper shippir	ng name:	-						
Transport hazard	class(es):	-						
Packing group:		-						
Environmental haz	zards:	-						
Special precaution	ns for user:	-						
Transpor	ting/shipment by ir	land waterways (ADN)						
UN number:		Not subject to transpo	rt regulations.					
UN proper shippi	ng name:	-						
Transport hazard	class(es):	-						
Packing group:		-						
Environmental haz		-						
Special precaution		-						
•	ting/shipment by se							
UN number:		Not subject to transpo	rt regulations.					
UN proper shippi		-						
Transport hazard	class(es):	-						
Packing group:		-						
Environmental ha		-						
Special precaution	ns for user:	-						



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

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: -	

15.1.	DN 15. Regulatory inform Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorisation and/or rest	Authorisation and/or restrictions on use					
	Authorisations:	-					
	Restrictions:	-					
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); 					



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Trade name:	BORAX, SOLUTION				
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	Information according 1 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 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 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classifi	cation	Classification procedure		
-		-		
16.5.	Relevant 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.	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. 		



-

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

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

ANNEX: Exposure scenario resulting to Chemical safety assessment



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

1.1	Product identifier					
	Trading name:	GOLD CHLC	GOLD CHLORIDE, 0.6% SOLUTION			
	Chemical name:	-				
	Catalogue number:	ZK06-OT-X	**			
1.2	Relevant identified uses of the substance or			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:	Supplier:		BioGnost Ltd.		
	Address:	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	Emergency telephone number				
	National Protection a	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regi	ulation (EC) No 1	272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	GOLD CHLORID	DE, 0.6% SOLUTION		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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

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

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

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



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Trading name:	GOLD CHLORIDE, 0.6% SOLUTION					
Product code:	ZK06-OT-X**	Date of compilation:	21 Dec 2022	Version:	2	
Product code:	2KU6-U1-X^^	Date of complication:	21 Dec 2022	version:		

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

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

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



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

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

SECTIO	ON 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation	Measures to prevent aerosol and dust generation:				
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:	Protect against electrostatic charges.				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunligh				
	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.				



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

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

SECTION 8. Expos	ure contro	ols/perso	onal pr	otect	tion				
8.1 Control pa	arameters								
Substance		CA				cupational exposure limit alues/short term values			Biological limit values
					р	pm	mg/m ³		-
-			-			-	-	-	
Substance name:	-								
EC No:	-	CAS No	:	-					
DNEL									
			I		Indu	ustrial			
Route of	Αςι			Acut			Chronic		Chronic
exposure:	effect	local	effe	ct sys	temic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
Critical physical par	rameters: s	olubility,	flamm	ability	, 		-		
			1			sumer			
Route of		cute		Acut					Chronic
exposure:	effec	t local	effe	ct sys	stemic	ic effect local			effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-						-
PNEC									
Environmental protection target				PNEC					
Fresh water					no information available				
Freshwater sedime	nts				1	no information available			
Marine water					I	no inform	nation available		
Marine sediments					1	no inform	nation available		



			- <b>j</b> <del>j</del> -			age 6 of 16	
Trading	name:		GOLD	CHLORIDE, 0.6	% SOLUTION		
Product	code:	ZK06-OT-X**	Date	of compilation:	21 Dec 2022	Version:	2
Food cha	iin			no information a	vailable		
Microorg	anisms in	sewage treatment		no information a	vailable		
Soil (agri		, , , , , , , , , , , , , , , , , , ,		no information a	vailable		
Air				no information a	vailable		
8.2	Expos	ure controls					
8.2.1.	Appro	priate engineering controls					
	Substance/mixture related measures to prevent exposure during identified uses:			•	in well ventilated ro ment. Do not eat, dr	•	
	Structural measures to prevent exposure:			In accordance wi	th Section 7.		
	Orgar expos	nisational measures to preve ure:	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 e: concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Perso	nal protection equipment		·			
8.2.2.1.	Eye ar	nd face protection:	levels of	of concentration in	o face (EN 166) or v air; protective gas r ner levels of concent	mask that covers	
8.2.2.2.	Skin p	protection					
	Hand	protection:	The protective gloves have to satisfy the specification of Regulation (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	ng everyday work use cotton clothing (EN 340) and suitable wear, such as rubber boots (EN 20345) or shoes that cover the e foot. In case of spilling hazard, use clothing made of ermeable material suitable for protection from liquid chemic n, PVC, himex) and footwear made from the same material.			
8.2.2.3.	Respi	ratory protection:	with a	filter for organic va	(EN 136) or half mas apors, type "A" (boil aed when concentra	ing point >65°C)	
8.2.2.4.	Therm	nal hazards:	No inf	ormation available			
8.2.3.	Enviro	onmental exposure controls	1				
		ance/mixture related ures to prevent exposure:	See Se	ction 6			



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Trading name:		GOLD CHLORIDE, 0.69	% SOLUTION		
Product code:	ZK06-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

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

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

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



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Trading name:			GOLD CHLORIDE, 0.6% SOLUTION				
Product code: ZK06-OT-X**		Date of compilation: 21 Dec 2022 Version:					
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	4 Conditions to avoid:		No information available				
10.5	Incompatible materials:		No information available				
10.6	Hazardou	s decomposition products:	: No information available				

11.1 Inform	oxicological information on hazard classes		n Regu	lation (EC) No 12	272/2008		
Acute	toxicity:		-				
Route of exposure:	Method	Species	Do	se LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure	e time	Results
Oral:	No information available	-		information lable	-		-
Dermal:	No information available	-		nformation lable	-		-
Inhalation:	No information available	-		information lable	-		-
Specif	ic target organ toxicity -		sure (S				Note
0.1	•	c effects	Target o			-	
Oral:	No information a		No information			-	
Dermal:	No information av			No information available			
Inhalation:	No information a	vailable	No information available       -         No information available.       -				
Aspira	tion hazard:	N					
Irritati	on and corrosion						
	Exposure	time	Speci	es Evalua	tion Meth	od	Note
Skin corrosion/irrita	tion:	-		-	-	-	
Serious eye damage/irritation		-		-	-	-	
Concit	ization						
Skin sensitizatio		mation availa	ahle				
Respiratory ser			able.				



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

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



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Trading	g name:		GOLD	CHLORIDE, 0.6	% SOLUTION			
Produc	t code:	ZK06-OT-X**	Date	of compilation:	21 Dec 2022	Version:	2	
		<u>.</u>			· · · · · · · ·			
Subacu		No information a			nformation available	-		
Subacute dermal No information available				nformation available	-			
	te inhalation				nformation available	-		
	onic oral	No information a			nformation available	-		
Subchro	onic dermal	No information a	available	No ii	nformation available	-		
Subchro	onic inhalatio	on No information a	available	No ii	nformation available	-		
Chronic	oral	No information a	available	No ii	nformation available	-		
Chronic	dermal	No information a	available	No ii	nformation available	-		
Chronic	inhalation	No information a	available	No ii	nformation available	-		
	CMR effect	s (carcinogenicity; mut	tagenicity; re	eproductive toxicity	<i>y</i> )			
	Carcinogenicity: Mutagenicity <i>in vitro</i> :		Bas	sed on available da	ata, the classification o	criteria are not r	met.	
			Bas	Based on available data, the classification criteria are not met.				
	Genotoxici	ty:	Bas	<ul> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> </ul>				
	Mutagenic	ity <i>in vivo</i> :	Bas					
	Germ cell r	nutagenicity:	Bas					
	Reproducti	ive toxicity:	Bas					
	Summary		the CMR	Based on availal	ole data, the classific	ation criteria a	re no	
	properties:			met.				
11.2	Information	n on other hazards:						
11.2.1.	Endocrine	disrupting properties:		1				
		ance/mixture does n						
	•	ts considered to have properties according						
		(f) or Commission						
		(EU) 2017/2100 or C						
	Regulation	(EU) 2018/605 at levels	s of 0.1% or					
	higher.							
11.2.2.	Other infor	mationa						

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



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Trading name:		GOLD CHLORIDE, 0.69	% SOLUTION		
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Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	_	-	_
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
12.2 Persistence a	nd degradab	oility				
Abiotic degra	dation					

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

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



Page 12 of 16 Trading name: **GOLD CHLORIDE, 0.6% SOLUTION** Product code: ZK06-OT-X** Date of compilation: 21 Dec 2022 Version: 2 12.3 **Bioaccumulative potential** Octanol-water partition coefficient (log Kow) Value °C Concentration pН Method Evaluation Note _ _ _ _ _ Bioconcentration factor (BCF) Value Species Method Evaluation Note No information No information No information No information _ available available available available Chronic ecotoxicity Exposure Value Dose Species Method Evaluation Note time No No No No Chronic toxicity on fish LC₅₀ information information information information _ available available available available No No No No Chronic toxicity on EC₅₀ information information information information _ crustacea (Daphnia) available available available available 12.4 Mobility in soil Known or predicted distribution in environmental compartments: No information available Surface tension: °C Value Concentration Method Note No No No information No information information information _ available available available available



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

Transpo	A/D coefficient				
	Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wa	ter No information available	No information available	No information available	No information available	-
Water-a	air No information available			No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5	Results of PBT and vPvB asse	ssment			
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulat		
12.6.	Endocrine disrupting proper	ies			
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulat		
12.7	Other adverse effects				
	No further relevant informat	on available.			
SECTIO	N 13. Disposal consideration	าร			
<b>SECTIO</b> 13.1	Waste treatment methods	IS			
	-	15			
	-				
13.1	Waste treatment methods	al:	rized by the Ministr	y of Environmental	and Nature
13.1	Waste treatment methods Product/Packaging disposa Submit for disposal to the	al: legal person autho	-	y of Environmental	and Nature
13.1	Waste treatment methods Product/Packaging disposa Submit for disposal to the Protection.	al: legal person autho ations according to	o Law:		
13.1 13.1.1. 13.1.2.	Waste treatment methods         Product/Packaging disposal         Submit for disposal to the Protection.         Waste codes/waste design         15 01 10*: Packaging that of	al: legal person autho ations according to contains residual ha	o Law:		
13.1 13.1.1.	Waste treatment methods         Product/Packaging disposal         Submit for disposal to the Protection.         Waste codes/waste design         15 01 10*: Packaging that or substances	al: legal person autho ations according to contains residual ha	o Law:		
13.1 13.1.1. 13.1.2.	Waste treatment methods         Product/Packaging disposal         Submit for disposal to the Protection.         Waste codes/waste design         15 01 10*: Packaging that or substances         Waste treatment – relevant	al: legal person autho ations according to contains residual ha t information:	o Law:		



				Page 14 of 16
Trading name: Product code: 7K06-OT-X**			GOLD CHLORIDE, 0.6% SOLUTION	
Product code: ZK06-OT-X**		ZK06-OT-X**	Date of compilation: 21 Dec 2022	2 Version: 2
	Waste r	must not be disposed	of into the sewage system.	
	,			
13.1.5.	Other d	lisposal recommenda	tions:	
	authori	zed by the ministry ir	ct's remains into the sewage system. Submit the r a charge. Do not dispose of the packaging into the ors authorized by the ministry in charge.	
13.1.6.	Relevar	nt Community provisi	ons:	
	Disposa	al must be made acco	ording to official regulations.	
SECTION	14. Trar	nsport information		
		ting/shipment by roa	d (ADR)	
UN numb	-		Not subject to transport regulations	
UN prope	er shippir	ng name:	-	
Transport	t hazard o	class(es):	-	
Packing g	group:		-	
Environm	entally h	azardous:	-	
Special p	recaution	ns for user:	-	
-	Transport	ting/shipment by rail	(RID)	
UN numb	per:		Not subject to transport regulations	
UN prope	er shippir	ng name:	-	
Transport	t hazard o	class(es):	-	
Packing g	group:		-	
Environm	entally h	azardous:	-	
Special p	recaution	ns for user:	-	
	Inland wa	aterway transport (AD	N)	
UN numb	per:		Not subject to transport regulations	
UN prope	er shippir	ng name:	-	
Transport	t hazard o	class(es):	-	
Packing g	group:		-	
Environm	entally h	azardous:	-	
Special p	recaution	ns for user:	-	
-	Transport	ting/shipment by sea	(IMDG)	
UN numb	per:		Not subject to transport regulations	
UN prope	er shippir	ng name:	-	
Transport	t hazard o	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: -	

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



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				<u>j</u>			
Trading name:		GOLD CHLORIDE, 0.6%	<b>% SOLUTION</b>				
Product code:	ZK06-OT-X**	Date of compilation:	Date of compilation: 21 Dec 2022				
National I	egislation:	dangerous substances, Ordinance of and on biological limit values, Regu classification of waste with a waste	emicals Act, Regulation on classification, packaging and labeling of agerous substances, Ordinance on occupational exposure limit values I on biological limit values, Regulation on categories, types and esification of waste with a waste catalog and list of hazardous waste, linance on writing Material safety data sheet, Transport of Hazardous				

15.2	Chemical safety assessment
	None

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

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trade name:	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	n Grocott and P.A.S.M./Jones kits.
	Uses advised against:			Only the ide	entified 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 sa	afety d	ata sheet	
	Supplier: BioG		BioGı	Snost Ltd.	
	Address: Me		Medj	djugorska 59, Zagreb	
	Telephone number: +38		+385	35 1 2409997	
	Telefax:+38		+385	35 1 2404039	
	e-mail of competent p	t person: <u>msds@</u>		s@biognost.hr	
	National contact:	-			
1.4.	Emergency telephone numbers				
	National Protection and Rescue Dire		e Direo	ctorate:	112
	Medical information:				+385 1 2348 342
	Other information:				-

SECTIO	N 2. Hazards identification				
2.1.	Classification of the substa	nce or mixture			
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and ca	ategory code:	Hazard statement*:		
	Skin. Sens. 1		H317		
2.1.2.	Additional information				
	-				
*For the	e full text of H and EUH phras	ses 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:	<ul> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water and soap.</li> <li>P308 + P313 IF exposed or concerned: Get medical advice/attention.</li> </ul>		
	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. Co	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
100-97-0/ 202-905-8/ 612-101-00-2	-	15 - 25 %	methenamine	Flam. Sol. 2; H228 Skin. Sens. 1B; H317	

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:	METHENAMINE, SOLUTION				
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	Self-protection of the first aider	-
4.2.	Most important symptom	is 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 immedia	ate medical attention and special treatment needed
	Treat symptomatically.	

SECTIO	ON 5. Firefighting measures		
5.1.	Extinguishing media		
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.	
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.	
5.2.	Special hazards arising from the su	ibstance 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 c containers exposed to fire with wa	ompressed air breathing apparatus and fireproof clothing. Cool closed ter spray or vapor.	
5.4.	Additional information		
	Heating may cause container cracking due to increase in pressure. Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.		

SECTIC	ON 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
	Protective equipment:	Use 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 (see Section 8).	e of inadequate ventilation use adequate airways protective equipment	



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

6.2.	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and materials for 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	Reference to other sections		
	-			

SECTIC	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. 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.	1.2. Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	well venti	ightly closed and upright set containers in a ilated storage rooms at temperatures rom 15 to 25 °C.	
	Packaging materials:	Manufact	nufacturer's original packaging.	
	Requirements for storage rooms and vessels: Keep away from food and drink. Keep the tightly closed.		ay from food and drink. Keep the containers osed.	
Advices for storage equipment: Advices for storage equipment: Advices for storage equipment:		ge must be made of hard material; floors resistant to chemicals. There must be no t directly leads into sewage system. Secure entilation.		
	Further information on storage conditions:	and do n	lace the unused material in the storage room ot use empty containers for storing other s. Do not store with incompatible materials ion 9).	
7.3.	Specific end use(s)	·		



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Trade name:	METHENAMINE, SOLUTION				
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Recommendations:	-
Industrial sector specific solutions:	-

8.1. Cor	ntrol parar	neters						
Occup					al exposure limit ort term values	Biological limit values		
				ppm	mg/m ³			
-			-	-	-	-		
Substance:	_							
EC No:	_	CAS No:	_					
DNEL			1					
				Industrial				
Route of expo	osure:	Acute effect local		ute effect ystemic	Chronic eff local	ect Chronic effect systemic		
Oral		-		-	-			
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
Critical physic	al parame	eters: solubility,	flammabil	ity, corrosivity	: -			
				Consumer				
Route of expo	osure:	Acute effect local		ute effect ystemic	Chronic eff local	ect Chronic effect systemic		
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-		-		_	-		
PNEC								
Environmenta	al protection	on target		PNEC				
Fresh water					No information available			
Freshwater se	ediments				No information available			
Marine water					ormation availabl			
Marine sedim	ents				No information available			
Food chain					No information available			
Microorganis	ms in sew	age treatment			No information available			
Soil (agricultu	ıral)				ormation availabl			
Air				No inf	ormation availabl	e		



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

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

8.2.	Exposure controls						
8.2.1.	Appropriate engineering controls						
	Substance/mixture related measu to prevent exposure during ident uses:		Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prevent exposure:		No information available				
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
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:						
0.2.2.2.	Hand protection:		Handle with chemical resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.				
	Other skin protection:		No specific protective equipment required.				
8.2.2.3.	Respiratory protection:		Use when overexposure potential. Improper use of respirators is dangerous.				
8.2.2.4.	Thermal hazards:		No information available				
8.2.3.	Environmental exposure controls						
	Substance/mixture related measures to prevent exposure:	See S	Section 6				
	Structural measures to prevent exposure:	Use ı	modern equipment.				
	Organisational measures to prevent exposure:		ot the work process to the required working conditions of the place.				
	Technical measures to prevent exposure:	See Section 6					

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



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

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

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



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

SECTION 11. T									
		xicological eff	ects						
Acute	toxicity:								
Route of exposure:	М	ethod	Sp	oecies	Effec Do LD ₅₀ /Lo ATE _m	se C ₅₀ or	Exposur time	e	Results
Oral:		formation ailable		-	No inform availa	ation	-		-
Dermal:		formation ailable		-	No inform availa	ation	-		-
Inhalation:		formation ailable		-	No inform availa	ation	-		-
Speci	fic target or	gan toxicity - s	single e	exposure (S	STOT-SE):				
			ific effe	•		Targ	et organ		Note
Oral:	No info	ormation availa	able				-		
Dermal:	No info	ormation availa	able			-		-	
Inhalation:	No info	ormation availa	able			-		-	
								·	
Aspira	ation hazard	l:		-					
Irritat	ion and corr	rosion							
		Exposure t	ime	Spec	ies	Evaluati	ion N	1ethod	Note
Skin corrosion/i	rritation:	No inforn available	nation	rabbit	-	-			mild skin irritation
Serious irritation	n to eyes:	No inforn available	nation			-			-
Sensit	ization								
Skin sensitizatio	1	information a	vailable	e.					
Respiratory sensitization:		information a							
÷									
		d to physical, o							



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Trade name:				METHENA	MINE	, SOLUTIOI			9 of 16	
Product code: MET-OT-X			Date of compilation:			14 November 2022			rsion:	4
Dermal exposur Inhalation expo		No kno	own specific syn own specific syn	nptoms.	cause	skin irritatior	n.			
Eye exposure:		No kno	own specific syr	nptoms.						
Repea	ated dose	toxicity (	subacute, subcl	hronic, chron	ic)					
	Do	se	Exposure time	Species	N	/lethod	Evaluatior	١	Note	
Subacute oral	No infor available		No information available	No informatio available		No No information informat available available		No on inforr availa		
Subacute dermal	No infor available		No information available	No information available	n ii	lo nformation vailable	No informatic available	on	No informa available	
Subacute inhalation	No information available		No information available	No information available	n iı	lo nformation vailable	No informatic available	on	No informa available	
Subchronic oral	No infor available		No information available			lo nformation vailable	No informatic available	on	No informa available	
Subchronic dermal	No infor available		No No information information available available		n iı	lo nformation vailable	No informatic available	on	No informa available	
Subchronic inhalation	No infor available		No No information informati available available		n iı	lo nformation vailable	No informatic available	on	No informa available	
Chronic oral	No infor available		No information available	No information available	n iı	lo nformation vailable	No informatic available	on	No informa available	
Chronic dermal	No infor available		No information available	No information available	n iı	lo nformation vailable	No informatic available	on	No informa available	
Chronic inhalation	No infor available		No information available	No information available	n iı	lo nformation vailable	No informatic available	on	No informa available	
	fic to rest		violity and a state			 				
Speci	nc target c	ngan to	icity - repeated Specific ef	•	IUI-K	E): Target org	ian		Note	
Subacute oral		N	o information a		No information available			No information available		on
Subacute derma	al	N	o information a	vailable	No in	formation av	ailable	No ir availa	nformati able	on



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Trade name:	METHENAMINE, SOLUTION						
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Subacute inhalation	No information available	No information available	No information available
Subchronic oral	No information available	No information available	No information available
Subchronic dermal	No information available	No information available	No information available
Subchronic inhalation	No information available	No information available	No information available
Chronic oral	No information available	No information available	No information available
Chronic dermal	No information available	No information available	No information available
Chronic inhalation	No information available	No information available	No information available

	CMR effects (carcinogenicity, mutagenicity,	reproductive toxicity)
	Carcinogenicity:	Based on available data, the classification criteria are not met.
	Mutagenicity in-vitro:	Based on available data, the classification criteria are not met.
	Genotoxicity:	Based on available data, the classification criteria are not met.
	Mutagenicity in-vivo:	Based on available data, the classification criteria are not met.
	Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
	Reproductive toxicity:	Based on available data, the classification criteria are not met.
	Summary of evaluation of the CMR properties:	No information available
11.2.	Information on other hazards:	
1.2.1.	Endocrine disrupting properties:	
	No known endocrine disrupting properties that affect human health.	
11.2.2.	Other informations:	
	·	

SECTION	I 12. Ecological information
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	-	-	-	-
Algae/aquatic plants:	IC ₅₀	72 hours	-	-	-	-
Other organisms	-	-	-	-	-	-

### 12.2. Persistence and degradability

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

% Degradation Time	(days) Method	Evaluation	Note
No information No information available available	ation No informati available	on No information available	-

### 12.3. Bioaccumulative potential

Octanol-water partition coefficient (log Kow)						
Value	Concentration	рН	°C	Method	Evaluation	Note
No information available	No information available	-	-	No information available	No information available	-



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Trade na	ame:				ME	THENAN	IINE, S	OLUTION	l			
Product	code:	ME	T-OT-X**	Da	ate of com	pilation:	14 N	ovember 2	2022		Version:	4
	Bioco	oncentra	tion Factor	(BCF)								
Va	lue		Specie	5	Me	thod		Evaluation			Note	
No infor available			No information available		No inform available	nation		informatior lable	ו	-		
	Chro	nic ecot	oxicity									
	Value		Dose	Expos tim		Species	Ν	lethod	Εv	aluation	Not	ie
Chronic	toxicit	y on fish	LC ₅₀	No informa availabl		ormation iilable		rmation lable		rmation lable	-	
Chronic crustace			EC ₅₀	No informa availabl		ormation iilable		rmation lable		rmation lable	-	
12.4.	Mob	ility in sc	oil									
	Knov	vn or pre	edicted dist	ribution i	n environm	ental com	partme	nts:				
	Surfa	ice tensio	on:									
	Va	lue	°C	C	oncentratio			thod			Note	
		o No No info ormatio information availab available available		informatio ailable					-			
	Adsc	orption /	desorptior									
Transpo		A/D o	coefficient 's constant		og Kow	Evapor rat		Me	thod		Note	
Soil-wat		No infor available	mation	No ir avail	nformation able	No informa available				ן -		
Water-a		No infor available			available No information No available informat available			No information available		ו -		



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		1					Page 13 of 16	
Trade na	me:		ME	THENAM	INE, S	SOLUTION		
Product	code:	MET-OT-X**	Date of com	pilation:	14 N	lovember 2022	Version:	4
Soil-air		information iilable	No information available	No informat available		No information available	-	
12.5.	Results	of PBT and vPvB as	sessment					
			•			o be either persistent /PvB) at levels of 0.1%		ive
12.6.	Endocri	ne disrupting prop	erties					
	properti		ACH Article 57(f) c	or Commis	sion D	red to have endocrine elegated regulation (E gher.		or
12.7.	Other ad	dverse effects						
	No info	rmation available						
SECTION	13. Dis	posal consideration	ons					
13.1.	Waste ti	reatment methods						
	-							
13.1.1.	Produ	ct/Packaging dispo	osal:					
	Submi Protec	•	e legal person autl	horized by	the M	inistry of Environmen	tal and Nature	
13.1.2.	Waste	codes/waste desig	inations according	to Law:				
	Dispos	sal must be made a	according to officia	l regulatic	ns.			
13.1.3.	\M/acto	treatment – releva	nt information.					
15.1.5.		ormation available						
13.1.4.	Sewag	je disposal – releva	nt information:					
	Waste	must not be dispo	osed of into the sev	vage syste	m.			
13.1.5.	Other	disposal recomme	ndations:					
	author		ry in charge. Do no	ot dispose	of the	stem. Submit the rem packaging into the se inistry in charge.		ectors
13.1.6.	Releva	nt Community pro	visions:					
	-							



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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	T
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	nd 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):	- ·



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Trade name:		METHENAMINE, SOLUTION				
Product code:	MET-OT-X**	Date of compilation:	14 November 2022	Version:	4	
Packing group:		-				
Environmental ha	zards:	-				
Special precautio	ns for user:	-				
		i				
Further information	on: -					

15.1.	Safety, health and enviro	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations				
	Authorisation and/or res	strictions on use			
	Authorisations:	-			
	Restrictions:	-			
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>			
	Information according 1 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessm	ient			
	-				

# **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:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>		
16.3.	Key literature references and source of data:	Manufacturer's MSDS file.		
16.4.	Classification and procedur 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					
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4		

SECTI	ON 1. Identification of t	he substance/	mixture	and of the company/undertaking		
1.1.	Product identifier					
	Trade name:	NUCLEAR FA	NUCLEAR FAST RED (KERNECHTROT) REAGENT			
	Chemical name:	-				
	Catalogue number:	KR-OT-X**				
1.2.	Relevant identified uses of the substance			ixture 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:	Bio	Gnost Lto	nost Ltd.		
	Address:	Me	djugorska	jugorska 59, Zagreb		
	Telephone number:	+3	35 1 2409	5 1 2409997		
	Telefax:	+3	35 1 2404	5 1 2404039		
	e-mail of competent p	erson: <u>ms</u>	ds@biogr	<u>s@biognost.hr</u>		
	National contact:	-				
1.4.	Emergency telephone	number				
	National Protection an	d Rescue Direo	ctorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or i	mixture			
2.1.1.	Classification according to Regula	tion (EC) No 127	72/2008 (CLP)		
	Hazard class and category	v code:	Hazard statement*:		
	Not identified as hazardous substa	ance.	-		
2.1.2.	Additional information				
	-				
* For ful	ll text of Hazard- and EU Hazard-sta	ntements: see SE	CTION 16		
2.2.	Label elements				
	Product identification:	NUCLEAR FAS	T RED (KERNECHTROT) REAGENT		
	Identification number:	-			
	Authorisation number:	-			
	Hazard pictograms:	-			



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT						
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. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
6409-77-4/ 229-088-0/ -	-	≤ 1%	Disodium 1-amino-2,4- dihydroxy-9,10-dihydro- 9,10-dioxoanthracene-3- sulphonate	Skin Irr. 2; H315 Eye Irr. 2; H319 STOT SE; H335		

SECTI	TION 4. First aid measures					
4.1.	Description of first aid meas	ures				
	General notes:	-				
	Following inhalation:	Remove person to fresh air. If breathing stops, immediately apply artificial respiration. If breathing difficulties occur, use emergency breathing apparatus. If the symptoms persist, immediately consult a physician.				
	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 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					
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:	١	Water, CO ₂ , foam, dry powder		
	Unsuitable extinguishing medi	a: I	No information available		
5.2.	Special hazards arising from th	e substan	ce or mixture		
	Hazardous combustion products:	No information available.			
5.3.	Advice for firefighters	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 f covering drains.	or putting	out fire from contaminating waterways by enclosing and		

SECTIO	ION 6. Accidental release measures						
6.1.	Personal precautions, protective equipment and emergency procedures						
6.1.1.	For non-emergency personnel						
	Protective equipment:	Use protective equipment in accordance with Section 8. Do not get in eyes or on skin. Do not inhale vapor/aerosols. Remove the persons not directly involved in rescuing procedure from the scene of event.					
	Accident prevention methods:	Keep away from heat, flames and sparks. Secure proper ventilation. Prevent electrostatic charge buildup. Use only grounded devices and equipment. Do not release in drains - explosion hazard.					
	Emergency procedures:	In case of accident secure the location and evacuate the personnel not involved in recovery.					
6.1.2.	For emergency responders:						
	Use protective equipment; in case (see Section 8).	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 Nation 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.			

SECTIC	ECTION 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 generatic	Adequate ventilation of the rooms where the n: 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 wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incom	patibilities					
	Technical measures and storage conditions:	In dry, cold and well-ventilated space. Containers must be firmly closed. Maintain adequate ventilation of the rooms where the product is kept and handled.					
	Packaging materials:	Manufacturer's original packaging.					



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

	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	Keep away from heat, flames, sparks and sunlight.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)	
	Recommendations:	Secure stations for rinsing eyes and showering in the vicinity of work area.
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection									
8.1. Control para	meters								
Substance CA		CASI			exposure limit : term values Bio		Bio	ological limit values	
				ppm	m	g/m³			
-		-		-		-		-	
Substance _ name:									
EC No: -		CAS No:	-						
DNEL									
				Industrial					
Route of exposure: Acute effect			cute effect systemic	Chronic effect local		ffect	Chronic effect systemic		
Oral	-		-		-			-	
Inhalation	-		-		-			-	
Dermal	-		-		-			-	
Critical physical paran	neters: s	olubility, fla	mmabilit	y, corrosivity:					
				Consumer					
Route of exposure:		te effect local		cute effect systemic	(	Chronic e local		Chronic effect systemic	
Oral	-		-		-			-	
Inhalation	-		-		-			-	
Dermal	-		-		-			-	
PNEC									



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

Environme	ental protection target		PNEC		
Fresh wate	er		No information available		
Freshwate	er sediments		No information available		
Marine wa	ater		No information available		
Marine se	diments		No information available		
Food chai	n		No information available		
Microorga	anisms in sewage treatment		No information available		
Soil (agric	ultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering controls	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:		e proper workspace ventilation in order to keep entration levels in air below permitted levels.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower f concentration in air; protective gas mask that covers the ace in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection				
			ive gloves must be according to the EU Directive 25/EEC and standard EN 374.		
	Hand protection:		Glove material: nitrile rubber		
			Glove thickness: ≥0.50 mm		
			Break through time: >480 min		
	Other skin protection:		ntistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 13034), and shoes that cover the entire foot 335).		
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				



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

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

1.	Information on basic physical ar	nd chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	red	No information available
	Odour/odour threshold:	No information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient 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		

**SECTION 10.: Stability and reactivity** 



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

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

11.1. Informatio	n on toxicological effe	ects				
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 infoi avail		-
Dermal:	No information available	-	No information available	No infoi avail		-
Inhalation:	No information available	-	No information available	No infoi avail		_
Specific tar	get organ toxicity – s	<b>U</b> .				
	Specific		Target or	-		Note
Oral:	No information avai	lable	No information a	available	-	
Dermal:	No information avail	lable	No information a	available	-	
Inhalation:	No information avail	lable	No information a	available	-	
Aspiration	hazard:	-				
Irritation a	nd corrosion					
3	Exposure ti	ne Sp	ecies 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 REE	) (KERNECHTROT) REAGE	NT
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

Sensitiz	ation					
Dermal exposure	: No informatio	n available				
Inhalation exposure:	No informatio	n available				
Sympto	ms related to the p	ohysical, chemic	al and toxicolog	ical characterist	ics	
Oral exposure:	No informatio	n available				
Dermal exposure	: No informatio	n available				
Inhalation exposure:	No informatio	n available				
Eye exposure:	No informatio	n available				
Repeate	ed dose toxicity (su	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 inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-



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	e:		NUCLEAR	R FAST RED (KERNECHTROT) REAGENT					
Product coc	de: H	KR-OT-X**	Date of com	ilation: 14 November 2022			Version: 4		
Chronic No informa inhalation available		o information ailable	No No information information available available		No No information informa available availabl		on -		
Spe	cific targ	jet organ toxic	ity – repeated e	xposure (STOT	RE):				
			Specific effects		Target orga	n	Note		
Subacute ora	al	No infor	mation availabl	e No ir	nformation availa	ble	-		
Subacute der	rmal	No infor	mation availabl	e No ir	nformation availa	ble	-		
Subacute inh	Subacute inhalation No inform			e No ir	nformation availa	ble	-		
Subchronic o	oral	No infor	mation availabl	e No ir	nformation availa	ble	-		
Subchronic d	lermal	No infor	mation availabl	e No ir	information available		-		
Subchronic inhalation No inform			rmation available No info		information available		-		
Chronic oral No inform			mation availabl	e No ir	nformation availa	ble	-		
Chronic dermal No information av			mation availabl	e No ir	nformation availa	ble	-		
Chronic inhal	lation	No infor	mation availabl	e No ir	nformation availa	ble	-		
CM	R effects	(carcinogenici	ty; mutagenicit	y; reproductive	toxicity)				
Caro	cinogeni	city:		No informati	on available				
	-	city: y <i>in-vitro</i> :		No information					
Mut	-	y in-vitro:			on available				
Mut Gen	tagenicit notoxicity	y in-vitro:		No information	on available on available				
Mut Gen Mut	tagenicit notoxicity tagenicit	y in-vitro: /:		No information	on available on available on available				
Mut Gen Mut Ger	tagenicit notoxicity tagenicit rm cell m	y in-vitro: /: y in-vivo:		No information No information No information	on available on available on available on available				
Mut Gen Mut Ger Rep	tagenicit notoxicity tagenicit m cell m productiv	y <i>in-vitro:</i> <i>r</i> : y <i>in-vivo</i> : utagenicity: e toxicity:	of the CMR	No information No information No information No information	on available on available on available on available on available				
Mut Gen Mut Ger Rep Sum pro	tagenicit notoxicity tagenicit m cell m productiv nmary c perties:	y <i>in-vitro</i> : y <i>in-vivo</i> : utagenicity: e toxicity: of evaluation		No information No information No information No information	on available on available on available on available on available				
Mut Gen Mut Ger Rep Sum pro	tagenicit notoxicity tagenicit m cell m productiv nmary c perties:	y <i>in-vitro:</i> <i>r</i> : y <i>in-vivo</i> : utagenicity: e toxicity:		No information No information No information No information	on available on available on available on available on available				
Mut Gen Mut Ger Rep 11.2. Info	tagenicit notoxicity tagenicit m cell m productiv nmary c perties:	y <i>in-vitro</i> : y <i>in-vivo</i> : utagenicity: e toxicity: of evaluation	rds:	No information No information No information No information	on available on available on available on available on available				
Mut Gen Mut Ger Rep Intractions Sum prop Intractions Info Intractions Info Info Info Info	tagenicit notoxicity tagenicit m cell m productiv nmary c perties: prmation locrine d known e	y in-vitro: y in-vivo: utagenicity: e toxicity: of evaluation on other haza isrupting prop	rds:	No information No information No information No information No information	on available on available on available on available on available				

SECTIO	N 12. General notes:
12.1.	Toxicity



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

Acute (short-ter toxicity	rm)	Dose	Exposure time	Species	Method	Eval	uation	N	lote
Fish		LC ₅₀	96 hours	No information available	-	No information available		-	
Crustacea:	rustacea: EC ₅₀		48 hours	No information available	-	No information available		-	
Algae/aquatic p	lants	IC ₅₀	72 hours	No information available	-	No information - available			
Other organism	S	-	-	-	-				
Chronic (long-totoxicity	erm)	Dose	Exposure time	Species	Method	Evaluation		N	lote
Fish		LC ₅₀	96 hours	No information available	-	No inforr available	mation	-	
Crustacea:		EC ₅₀	48 hours	No information available	-	No inforr available	nation	-	
Algae/aquatic p	lants	IC ₅₀	72 hours	No information available	_		nation	-	
Other organisms		-	-	-	-	-		-	
12.2. Persist Abiotic		nd degradab Idation	ility						
	D	egradation h	alf-lives	Method		E١	aluation		Note
Marine water	No ir	nformation a	vailable	No information av	vailable	No inform	ation available		-
Fresh water	No ir	nformation a	vailable	No information av	vailable	No informa	ation availat	ole	-
Air	No ir	nformation a	vailable	No information av	vailable	No informa	ation availat	ole	-
Soil	No ir	nformation a	vailable	No information av	vailable	No informa	ation availat	ole	-
Biodec	iradatio	on							
% Degradation		Time (days	)	Method	Eva	luation	1	Note	
No information No			nation	information availab	No ii	nformation	No available		mation
		ive potential							
Octano		er partition co		-					
Value	Conc	entration	рН	°C Method	E	valuation		Note	



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Trade nar	ne:			NUC	LEAR	FAST R	ED (KEF	RNECH	TROT) RE	AG	ENT	-
Product c	ode:	KF	R-OT-X**	Date of	fcomp	ilation:	1	4 Nove	mber 202	2	Version	: 4
		1		1			ł					:
No informatio available	n	lo inf vailab	formation le		-	No in availab	formatio le	-	informa lable	tion	No ir available	formation
<b>D</b> :		4 4	: (D									
		entrat	ion factor (B			N.4. (1			1:		N	
Valu			Species			Method			aluation		Not	
No informa available	ation		o information ailable		No inf availal	formatic ble	'n	No info availab	rmation e		No informati available	on
C	hronic	ecoto	oxicity									
v	Value		Dose		posure time	S	Species	N	lethod	E	valuation	Note
Chronic to	xicity o	on fish	LC ₅₀	No infor availa	mation able		rmation lable		rmation lable		ormation ilable	-
Chronic to: crustacea (	-		EC ₅₀	No infor availa	mation able	1	rmation lable		rmation lable		ormation ilable	-
12.4. M	lobility	r in soi	il									
			dicted distrib	ution in e	environr	mental c	ompartn	nents:				
		•	on available				epara					
	urface											
	Valu		°C	C	oncentr	ation		Metho	d		Note	
	o format vailable		No information available	<b>N</b>	inform ailable	ation	No info availabl	ormation le	1	-		
A	dsorpt		desorption									
Transport			coefficient /'s constant	lc	og Kow	E٧	vaporatio	n rate	Meth	od	٩	lote



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		4				Page 13 of 17
Trade na	ame:		NUCLEAR FAS	T RED (KERNECH	ITROT) REAGENT	<b>F</b>
Product	code:	KR-OT-X**	Date of compilation	on: 14 Nov	ember 2022	Version: 4
Soil-wate	er No avail	informatio	n No information available	No information available	No information available	-
Water-aiı	, No avail	informatio able	n No information available	No information available	No information available	-
Soil-air	No avail	informatio able	n No information available	No information available	No information available	-
		PBT and vPvB as nation available	sessment			
		e disrupting prope	erties oting properties that	affect the environr	nent.	
		rerse effects nation available				
SECTION	l 13. Disp	osal consideration	ons			
13.1.		reatment method				
13.1.1.	Product	/Packaging dispo	sal:			
	Submit Protection	•	e legal person autho	rized by the Ministr	y of Environmental	and Nature
13.1.2.	Waste c	odes/waste desig	nations according to	D Low:		
	15 01 10 substan		t contains residual h	azardous substance	s or is contaminated	d with hazardous
13.1.3.	Waste ti	reatment – releva	nt information:			
	No info	rmation available				
13.1.4.		disposal – releva				
	Waste n	nust not be dispo	sed of into the sewa	ge system.		
13.1.5.	Other d	isposal recomme	ndations:			



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			Page 14 of 17			
	NUCLEAR FAST RED	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
KR-OT-X**	Date of compilation:	14 November 2022	Version: 4			
<ul> <li>Do not dispose of the product's remains into the sewage system. Submit the remains to the collect authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Su the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places wignition may occur.</li> <li>Relevant Community provisions:</li> </ul>						
	-		on on categories,			
-						
ng/shipment b	-					
	Not subject to trans	port regulations				
	-					
ass(es):	-					
	-					
irds:	-					
for user:	-					
ng/shipment b	y rail (RID)					
	Not subject to trans	port regulations				
g name:	-					
ass(es):	-					
	-					
irds:	-					
for user:	-					
ng/shipment b	y inland waterways (ADN)					
	Not subject to trans	port regulations				
g name:	-					
ass(es):	-					
	-					
ırds:	-					
for user:	-	-				
ng/shipment b	y sea (IMDG)					
	Not subject to trans	port regulations				
g name:	-					
ass(es):	-					
	-					
irds:	Not subject to trans	port regulations				
	lispose of the p ed by the minis aging to the co may occur. Community p ble Waste Man d classification sport informat ng/shipment b g name: ass(es): ards: for user: ng/shipment b g name: ass(es): ards: for user: ng/shipment b g name: ass(es): ards: for user: ng/shipment b g name: ass(es): ards: for user: ng/shipment b	KR-OT-X**       Date of compilation:         lispose of the product's remains into the several by the ministry in charge. Do not dispose aging to the collectors authorized by the minay occur.         Community provisions:         ble Waste Management Act, Ordinance on Val classification of waste with waste catalog at a catalog	KR-OT-X**       Date of compilation:       14 November 2022         Isipose of the product's remains into the sewage system. Submit the remed by the ministry in charge. Do not dispose of the packaging into the segaging to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segaging to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segaging to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segaging to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segaging to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segaging to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segaging to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segaging to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segaging to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segand called the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segand called the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segand called the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segand called the collectors authorized by the ministry in charge. Do not dispose of the packaging into the segand called the collector authorized by the ministry in charge. Do not dispose of the packaging into the segand called the collector authorized by the ministry in charge. Do not dispose of the packaging into the segand called the collector authorized by the ministry in charge. Do not dispose of the packaging into the segand called the collector authorized by the ministr			



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

Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (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: -	

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



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Trade name: Product code: KR-OT-X**			NUCLEAR FAST RED	(KERNECHTROT) REAGE	NT
		KR-OT-X**	Date of compilation:	14 November 2022	Version: 4
	National	regulation:	dangerous substances, C and on biological limit va	n on classification, packaging Ordinance on occupational exp alues, Regulation on categorie th a waste catalog and list of Substances Act	posure limit values es, types and
15.2.	Chemical	safety assessme	nt		
	None				

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



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



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

SECTI	ON 1 IDENTIFICATION	OF THE SU	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	PERIODIC	PERIODIC ACID, 1 % SOLUTION		
	Chemical name:	-	-		
	Catalogue number:	PK1-OT->	<b>{</b> **		
1.2.	Relevant identified use	es of the sul	bstance or mi	xture and uses advised against	
	Uses:		For use w	ith special staining kits.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier: B		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 D	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) N	lo. 1272/2008	(CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous subst	ance.	-		
2.1.2.	Additional information				
	-				
*For full	l text of Hazard- and EU Hazard-sta	tements: see S	ection 16		
2.2.	Classification according to EC Dire	ective Nr. 1272,	/2008 CLP)		
	Product identification:	PERIODIC AC	ID, 1 % SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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Trading name:	PERIODIC ACID, 1 % SOLUTION						
Product code:	PK1-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			
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is n PBT or a vPvB.			

SECTION 3 CC	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	TION 4 FIRST AID MEASURES				
4.1.	Description of first aid measures				
	General notes:	-			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to- mouth) and contact a physician.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.			
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.			
	Self-protection of the first aid	ider: Treat symptomatically.			
4.2.	Most important symptoms ar	ns and effects, both acute and delayed			
	Following inhalation:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.			
	Following skin contact:	Slight irritation. After short exposure, resorption effects are not likely. Long- term exposure may cause drying, cracking and tingling sensation of skin.			



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

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

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

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



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

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

SECTIO	CTION 7 HANDLING AN STORAGE				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		ep away from sources of heat and ignition. Do smoke.		
	Measures to prevent aerosol and dust generation	on: Sec	ure proper ventilation.		
	Measures to protect the environment:		vent spilling into the sewage system and erways.		
	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:	ventilate	tightly closed and upright set containers in a well ed storage rooms, and away from sources of heat, , and other incompatible substances.		
	Packaging materials:	<ul> <li>Manufacturer's original packaging.</li> <li>Keep away from food and drink. Keep the containers tightly closed.</li> <li>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.</li> </ul>			
	Requirements for storage rooms and vessels:				
	Advices for storage equipment:				
	Further information on storage conditions:	and do r	place the unused material in the storage room not use empty containers for storing other ls. Do not store with incompatible materials (see 9).		
7.3.	Specific end use(s)				



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

Recommendations:	-
Industrial sector specific solutions:	-

SECTIO	ON 8 EX	XPOSU	RE CON	TROLS/PER	SONAL	PROT	CTION			
8.1.	Cont	rol para	meters							
	Substance CAS		CASI	No		•	pational exposure limit es/short term values		ological limit values	
						þ	opm	mg/m ³	-	J
-				-			-	-	No infor	mation available
		:								
Substa name:	nce	-								
EC No:		-		CAS No:	-					
DNEL										
						Ind	ustrial			
Route	of		A	Acute		Acute	9	Chron	ic	Chronic
exposi	ure:		effe	ect local	effe	ect syst	emic	effect lo	ocal	effect systemic
Oral			-		-			-		-
Inhalat	ion		-		-		-		-	
Derma			-		-		-		-	
Critical	physic	al parar	neters: s	solubility, fla	mmabili	ty, corr	osivity:	-		
						Con	sumer	1		
Route				Acute	Acu			Chronic		Chronic
exposi	ure:		effe	ect local	effe	effect systemic		effect local		effect systemic
Oral			-		-			-		-
Inhalat			-		-			-		-
Derma			-		-			-		-
PNEC										
		l protec	tion tar	get			PNEC			
Fresh v								mation availabl		
		diments	S				No information available			
Marine water					No information available					
Marine		ents						mation availabl		
Food c								mation availabl		
	-		wage tr	eatment			No information available			
Soil (ag	gricultu	ral)					No infor	mation availabl	е	



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

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

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



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

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

SECTIO	SECTION 10 STABILITY AND REACTIVITY						
10.1.	Reactivity:	See subsections 10.3 through 10.5.					
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.					
10.3.	Possibility of hazardous reactions:	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						
Product code:	PK1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4				

Acute toxi	city:					
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure	time	Results
Oral exposure:	No information available	-	LD ₅₀	-	_	
Dermal exposure:	No information available	-	LD ₅₀	-		-
Inhalation exposure:	No information available	-	LC ₅₀	-		-
Specific ta	rget organ toxicity – si	ngle exposure (S	TOT SE):			
	Specifi	c effects	Target	organ		Note
Oral exposure:	No information a	available	No informatio	on available	-	
Dermal exposure:	No information a	available	No information available		-	
Inhalation exposure	e: No information a	available	No informatio	on available	-	
Irritation a	nd corrosion		1 1			
	Exposure time	Species	Evaluation	Method		Note
Skin irritation:	-	rabbit	-			
Eye irritation:	-	rabbit	-			
	on					
Sensitizati						
	No information availa	able				
Sensitizati Dermal exposure: Inhalation exposure:	No information availa					
Dermal exposure: Inhalation exposure:		able	oxicological chara	cteristics		
Dermal exposure: Inhalation exposure:	No information avail	able I, chemical and t ause irritation of evels of concent g, aspiration cau	mucosa, tingling ration may cause ses coughing, diff	sensation in tl nausea, abdoi	minal pa	ain and vomitir



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Trading name: PERIODIC ACID, 1 % SOLUTION									
Product code:	PK	1-OT-X**	Da	ate of com	pilation:	21 Dec	2022	Version:	4
Inhalation exposi	lire [.]		large amount eezing, heada	•		quately vent	tilated perim	neter may c	ause
Eye exposure:		Direct eye co sensation.	ontact may cau	ise slight to	moderat	e irritation,	lacrimation	and burnir	ng
Repeate	ed dose	toxicity (sub	acute, subchro	onic, chroni	c)				
		Dose	Exposure time	Species		ethod	Evaluatio	n Not	e
Subacute oral	No availa	information Ible	No information available	No informatio available		o formation ailable	No informatio available	on -	
Subacute dermal	No information available		No information available	No informatio available		o formation ailable	No informatio available	on -	
Subacute inhalation	No information available		No information available	No informatio available		o formation ailable	No informatio available	on -	
Subchronic oral	No information available		No information available	No informatio available		o formation ailable	No informatio available	on -	
Subchronic dermal	No information available No No information available available		-	o formation ailable	No informatio available	on -			
Subchronic inhalation	No availa	information Ible	No information available	No informatio available		o formation ailable	No informatio available	on -	
Chronic oral	No availa	information Ible	No information available	No informatio available		o formation ailable	No informatio available	on -	
Chronic dermal	No availa	information Ible	No information available	No informatio available		o formation ailable	No informatio available	on -	
Chronic inhalation	No availa	information ble	No information available	No informatio available		o formation ailable	No informatio available	on -	
Specific	target	organ toxicit	y – repeated e	exposure (S	TOT RE):				
			pecific effects	•		Target org	an	N	ote
Subacute oral		No informa	tion available		No infor	mation ava	ilable	-	
Subacute dermal		No informa	ation available		No infor	mation ava	ilable	-	
Subacute inhalat	ion	No informa	tion available		No infor	mation ava	ilable	-	



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Trading	g name:		PERIC	DDIC ACID, 1 %	6 SOLUTION				
Product code: PK1-OT-X**		Date o	Date of compilation: 21 Dec 2022		Version: 4				
Cubabya	onic oral	No inform	nation available	Nia inform					
					nation available	-			
	onic dermal		nation available		nation available	-			
	onic inhalati		nation available		nation available	-			
Chronic			nation available		nation available	-			
Chronic			nation available		nation available	-			
Chronic	inhalation	No inforr	nation available	No inforn	nation available	-			
	CMR effec	ts (carcinogenic	ity, mutagenicity, rep	roductive toxicit	V)				
	Carcinoge				s did not indicate ca	arcinogenic effects.			
	_	city <i>in-vitro</i> :							
	Genotoxic	-		Current <i>in vitro</i> tests did not indicate mutagenic effects. No information available					
		city <i>in-vivo</i> :		Current in vivo tests did not indicate mutagenic effects.					
	_	mutagenicity:		No information available					
		tive toxicity:	No toxicity o organs.	No toxicity on reproductive organs was determined in reproductiv organs.					
	Summary	of evaluation of	the CMR properties:	-					
11.2	Informatio	on on other haza	ards:						
11.2.1.	Endocrine	disrupting prop	oerties:						
	contain have end according Commissio 2017/2100	ostance/mixture components c ocrine disrupti to REACH An on Delegated ro or Commissio 3/605 at levels	ng properties ticle 57(f) or egulation (EU) on Regulation						
11.2.2.	Other info	rmations:	1						

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 %	<b>SOLUTION</b>		
Product code:	PK1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

							No			
Crustacea:	Crustacea: EC ₅₀ 48		48 hou	rs	No information available		ormation vailable	-	-	
Algae/aquatic	plants	IC ₅₀	8 days		No information available		No ormation wailable	-	-	
Microorganism	าร	LC ₅₀	72 hou	rs	-	-		-	-	
Chronic toxicit	у	Dose	Exposi time		Species	I	Vethod	Evaluation		Note
Fish		LC ₅₀	96 hou	rs	No information available		ormation ilable	No information available	-	
Crustacea:		EC ₅₀	48 hou	rs	No information available		ormation ilable	No information available	-	
Algae/aquatic plants IC ₅₀ 72 hours No information information information information			No information available	-						
Other organisr	ns	-	-		-	-		-	-	
12.2. Persis	tence a	nd degradab	oility							
Abiot	ic degra	adation								
	Deg	radation hal	f-lives		Method			Evaluation		Note
Marine water	No inf	ormation av	ailable	No	information avail	able	No inform	ation available		-
Fresh water	No inf	ormation av	ailable	No	information avail	able	No inform	ation available		-
Air No information available No information available No information available -						-				
Soil	No inf	ormation av	ailable	No	No information available No in		No inform	ation available		-
Biode	gradati	on								
% Degradation Time (days) Method Evaluation Note						te				
No information availableNo information availableNo information availableNo information available						ion				
	1									
12.3. Bioac	cumula	tive potentia	1							
Partiti	on coe	fficient: n-oc	tanol/wa	ter (l	og Kow):					
Value	Conce	entration	рН	°(	2 Method		Evalua	ation	N	ote



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Tradir	ding name: PERIODIC ACID, 1 % SOLUTION													
Produ	ict coo	de:	PK1-C	)T-X**		Date	e of co	mpilatio	on: 2	21 Dec	2022	Versi	on:	4
-		No availa	inform ble	ation _		_	No info availab	ormatior lle		o inform ailable	nation	-		
		concen	tration f	actor (BC	F)				-					
No info availab		on	No availab		mation	No info availab				Evaluation formation		No infori available		
avanac			avanab						avalla	DIE		available		
	Chro	onic ec	otoxicity	ý										
	Va	lue		Dose		oosure time	Sp	ecies	Met	thod	Eval	uation		Note
Chroni	ic toxic	city on	fish	LC ₅₀		rmation able	No No information available available		-					
Chroni crustad		-	)	EC ₅₀	No infoi avail	rmation able	No infor availa	mation able	No inforn availa		No info availabl	ormation le	-	
12.4.	Mol	bility in	soil											
	Kno	wn or	predicte	d distrib	ition in	environm	nental o	compart	ments:					
	No	inform	ation av	ailable										
		ace ter	nsion:					1						
		Value °C Concentration		Method			N	ote						
	NoNoinformation availableinformation availableNo information availableNo information available		on	-										
	Ads	orptior	n / deso	rption										
Transp	1	A	/D coeff enry's co	ficient	]	og Kow	E١	vaporati	on rate		Method		N	ote
Soil-wa	ater	No availa		formatio	n No i avail	nformatio able	on No information No information available							



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						Page 13 of 16
Trading	name:		PERIO	DIC ACID, 1 %	SOLUTION	
Product	code:	PK1-OT-X**	Date of	compilation:	21 Dec 2022	Version: 4
Water-ai	r No availa	information	No information available	No information available	No information available	-
Soil-air	No availa	information able	No information available	No information available	No information available	-
12.5.	Desulte of	PBT and vPvB asses	<b>-</b>			
	The substa according	ance/mixture does i	not contain compo 7(f) or Commission	n Delegated regu	d to have endocrine Ilation (EU) 2017/21	disrupting properties 00 or Commission
12.6.	Endocrine	disrupting properti	es			
	according		7(f) or Commission	n Delegated regu	d to have endocrine Ilation (EU) 2017/21	disrupting properties 00 or Commission
12.7.	Other adv	erse effects				
	No inform	ation available				
SECTION		OSAL CONSIDERA				
13.1.		reatment methods				
	3					
13.1.1.	Product,	/Packaging disposa	l:			
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.					
13.1.2.	Waste c	odes/waste designa	itions according to	o Law:		
	2. Waste codes/waste designations according to Law:           No information available					
13.1.3.	Waste ti	reatment – relevant	information:			
	No infor	mation available				
13.1.4.	Sewage	disposal – relevant	information:			
		nust not be dispose		ge system.		
1015	Others "					
13.1.5.	Other disposal recommendations:					



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Trading name:		PERIODIC ACID, 1 %	6 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 provisio	ns:			
	-				
SECTION	14 TRANSPORT INFORMATION	ON			
7	Fransporting/shipment by road	(ADR)			
UN numb	ier:	Not subject to transport regulations.			
UN prope	er shipping name:	-			
Transport	hazard class(es):	-			
Packing g	roup:	-			
Environm	entally hazardous:	-			
Special precautions for user:		-			
٦	Fransporting/shipment by rail (I	RID)			
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:	-			
I	nland waterway transport (ADN	1)			
UN numb	ier:	Not subject to transport regulations.			
UN prope	er shipping name:	-			
Transport	hazard class(es):	-			
Packing g	roup:	-			
Environmentally hazardous:		-			
Special pr	recautions for user:	-			
٦	Fransporting/shipment by sea (	MDG)			
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:	-			



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

Transporting/shipment by a	air (ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

15.1.	Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	trictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;</li> <li>Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> </ul>
		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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Product code:       PK1-OT-X**       Date of compilation:       21 Dec 2022       Version:       4         National legislation:         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 safet, Transport of Hazardous vaste, Substances Act	Trading nar	me:		PERIODIC ACID, 1 9	% SOLUTION		
National legislation: dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous	Product co	de: PK1-OT-2	<b>(</b> **	Date of compilation:	21 Dec 2022	Version:	4
	Nat	ional legislation:	dange and or classifi Ordina	rous substances, Ordinance n biological limit values, Reg cation of waste with a wast ance on writing Material saf	e on occupational ex gulation on categor te catalog and list o	xposure limit ries, types and f hazardous w	values   vaste,

None

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

# ANNEX:

Exposure scenario resulting to Chemical safety assessment

| -



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

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier	Product identifier			
	Trading name:	SILVER NIT	SILVER NITRATE SOLUTION, STABILIZED		
	Chemical name:	-	_		
	Catalogue number:	SNS-OT-X*	*		
1.2	Relevant identified use	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:	Uses advised against:		identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection an	d Rescue Dire	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 Regi	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Aquatic Chronic 3		H412		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	SILVER NITRATE	SOLUTION, STABILIZED		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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Trading name:	SILVER NITRATE SOLUTION, STABILIZED						
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:	<ul><li>P273 Avoid release to the environment.</li><li>P501 Dispose of contents/container in accordance with local regulations.</li></ul>
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	erties:
	No known endocrine disrupti	ing properties
	<b>Results of PBT and vPvB as</b> PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

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

SECT	ION 4. First aid measures			
4.1	Description of first aid measures	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 eff	fects, both acute and delayed		



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Trading name:	SILVER NITRATE SOLUTION, STABILIZED						
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
	-	

SECTION 5. Firefighting measures					
5.1	Extinguishing media				
	Suitable extinguishing media:	Water spray, foam, dry powder, CO ₂ or alcohol resistant foam.			
	Unsuitable extinguishing media:	Water with full jet.			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Nitrogen oxides (NOx). During heating or in case of fire poisonous gases are produced.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit of	compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Do not contaminate the environment	ent with extinguishing media.			

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

SECTIO	CTION 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. The	noroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incon	npatibilities				
	Technical measures and storage conditions:		htly closed and upright set containers at res ranging from +2 to +8 °C.			
	Packaging materials:	Manufactu containers	ırer's original packaging. Avoid metal			
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	and do no	ice the unused material in the storage room t use empty containers for storing other Do not store with incompatible materials on 10).			



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

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

SECTION 8. Expos	ure contr	ols/perso	onal protec	tion			
8.1 Control pa	arameters						
Substance		CA			cupational exposure limit alues/short term values		Biological limit values
				þ	opm	mg/m ³	-
Silver (as Ag)			-		-	0.01	-
Substance name:	_						
EC No:	_	CAS No	: -				
DNEL							
				Ind	ustrial		
Route of exposure:	Acu effect		Acu ^a effect sys			Chronic effect local	Chronic effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
Critical physical pa	rameters: s	solubility,	flammabilit	ty, corr	osivity:	-	
				Con	sumer		
Route of exposure:	Act effect	ute : local	Acu effect sy			Chronic effect local	Chronic effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
PNEC							
Environmental pro-	tection tar	get			PNEC		
Fresh water					no inform	nation available	
Freshwater sediments					no information available		
Marine water						nation available	
Marine sediments						nation available	
Food chain					no information available		
Microorganisms in	sewage tr	eatment				nation available	
Soil (agricultural)					no inform	nation 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 contro	ls			
	Substance/mixture related meas prevent exposure during identifi		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 prevex exposure:	vent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent e	exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	levels	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) ong sleeves (EN 340) and shoes that cover the entire foot.		
8.2.2.3.	Respiratory protection:		quired under normal conditions of use. Use suitable atory protective device when high concentrations are at.		
8.2.2.4.	Thermal hazards:	No inf	ormation available		
8.2.3.	Environmental exposure control	S			
	Substance/mixture related measures to prevent exposure:	See Se	ection 6		
	Structural measures to prevent exposure:	Use m	odern equipment.		
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.		
	Technical measures to prevent exposure:	See Section 6			

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



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Trading name:	SILVER NITRATE SOLUTION, 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
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
2	Other information		

SECTIO	SECTION 10. Stability and reactivity				
10.1	Reactivity:	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			

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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						Page 8 of 16	)	
Trading name:		SILVER	NITRATE SOLU	FION, STAE	BILIZED			
Product code:	SNS-OT-X*	T* Dat	e of compilation:	21 Dec	2022	Version:	4	
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ ATE _{mix}	or Exp	osure time	e Resu	ults	
Oral:	-	No information available	_	No info availab	ormation le	-	_	
Dermal:	-	- No information available		No info availab	ormation le	-		
Inhalation:	- No information available		-	No info availab	ormation le	-		
Specific ta	arget organ to:	xicity – single expos	ure (STOT SE):					
		pecific effects		get organ		Note		
Oral:		tion available		tion available	e -			
Dermal:	No informat	tion available	No informa	tion available	e -			
Inhalation:	No informat	tion available	No informa	formation available -				
Aspiratio	n hazard:	No	information availa	ble.				
Irritation	and corrosion							
	Expo	osure time	Species Eva	luation N	Vethod	Note		
Skin corrosion/irritatior	n: -	-	-	-		-		
Serious eye damage/irritation	-	-	-	-		-		
Sensitizat	ion							
Skin sensitization:	-							
Respiratory sensiti	zation: -							
Symptom	s related to the	e physical, chemical	and toxicological	characteristic	S			
Oral exposure:	No inforr	nation available.						
Dermal exposure:	No inforr	mation available.						
Inhalation exposur	re: No inform	nation available.						
Eye exposure:	No inform	nation available.						
Reneated	dose toxicity (	subacute, subchron	ic. chronic)					
	Dose	Fxposure		ethod	Evaluatio	n Note		



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

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

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



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Trading name	:		S	SILVE	R NITRATE S	OLUT	ION, STA	BILIZED		
Product code:	S	NS-OT-X*'	ç	Da	Date of compilation: 21 D		21 De	c 2022	Version:	4
Crustacea:		EC ₅₀	48 hours	No information		No information available		No information available	-	
Algae/aquatic plants IC ₅₀ 72 hours			No information		mation able	No information available	-			
Other organism	าร	-	-	-		-		-	-	
12.2 Persist	ence a	nd degrada	hility							
		idation	Sincy							
		gradation h	alf-lives		Method		Evaluatio	n	Note	
Marine water	ar I No information available			nformation lable	No ir availa	nformation able	n _			
Fresh water	ach water I No intermation available			nformation lable	No information available		n _			
Air	ir No information available			nformation lable	No information available					
Soil	oil No information available			nformation lable	No information _ available _		n -			
Biodec	gradatio	on								
% Degradatio	-	Time (	days)		Method		Evaluatio	n	Note	
No information available		No ir available	oformation		information lable	No ir availa	nformation able	n No ir availa	nformation able	
12.3 Bioacc	umulat	ive potentia	al							
		er partition of	coefficient (	-						
Value	Conce	ntration	рН	°C	Method		Evalu	ation	Note	
				-	-		-	-		
Riocor	centra	tion factor (								
Value	icentia	Speci			Method		Evaluati	on	Note	
No information available		· · ·	formation	No i avai	nformation		informati ilable		Note	



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Trading	g name:			SILVER N	NITRA	TE SO	LUTION	I, STA	BILIZED	5	
Produc	t code:	SN	IS-OT-X**	Date	of coi	mpilatio	on:	21 Deo	2022	Version:	4
	Chronic	c ecoto	kicity								
	Value		Dose	Exposure time	Spe	ecies	Metł	nod	Evaluatior	n Not	e
Chronic	toxicity	on fish	LC ₅₀	No information available	No inforr availa	nation ble	No inform availab		No information available	1 -	
	: toxicity ea ( <i>Daph</i>		EC ₅₀	No information available	No inforr availa	nation ble	No inform availab	1	No information available	1 –	
12.4	Mobilit	y in soil									
				on in environme	ental c	ompart	ments:				
			n available								
	Surface	tensio	า:								
	Valu	Je	°C	Concentrat	ion		Metho	d		Note	
	No informa availab		No information available	No informati available	ion	No info availat	ormation ble	n	-		
	Adcorp	tion / d	ocorntion								
	Ausorp		esorption coefficient								
Transpo	ort	-	's constant	log Kow	Eν	aporatio	on rate	1	Nethod	Note	
Soil-wa	ter av		information	No informatio available		o inform ailable	ation	No in availa	formation ble	-	
Water-a	air No av	o vailable	information	No informatio available		o inform ailable	ation	No in availa	formation ble	-	
Soil-air	Ne av	o vailable	information	No informatio available		o inform ailable	ation	No in availa	formation ble	-	
12.5	This sul	bstance		isment ins no compone and very bioacc							e and



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				<u></u>	Page 13 of 16	)
Trading n	ame:		SILVER NITRATE SOLUTI	ON, STABILIZED		
Product c	ode:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4
		1	1		-	
12.6. Er	ndocrine	disrupting properties				
ac	cording		t contain components considere ) or Commission Delegated regu els of 0.1% or higher.			
12.7. O	ther adv	erse effects				
Ν	o inform	ation available				
SECTION ²	13. Disp	osal considerations				
13.1	Waste ti	reatment methods				
13.1.1.	Product	/Packaging disposal:				
	Submit Protection	1 5	al person authorized by the Min	istry of Environmen ⁻	tal and Nature	
		odes/waste designatic				
	Packagi	ng that contains residu	ual hazardous substances or is co	ontaminated with h	azardous substa	nces
13.1.3.	Waste ti	reatment – relevant in	formation [.]			
		mation available				
13.1.4.	Sewage	disposal – relevant inf	formation:			
	Waste n	nust not be disposed o	of into the sewage system.			
13.1.5.	Other di	sposal recommendati	ons:			
	authoriz	ed by the ministry in a	's remains into the sewage syste charge. Do not dispose of the pa s authorized by the ministry in c	ickaging into the se		
13.1.6.	Relevan	t Community provision	าร:			
	-					
SECTION '	14 TRAN	ISPORT INFORMATIO	N			
l	-	ng/shipment by road	(ADR)			
UN numbe			Not subject to transport regu	lations		
UN proper			-			
Transport		lass(es):	-			
Packing gr	oup:		-			



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Trading name:		SILVER NITRATE SOLUTI	ON, STABILIZED		
Product code:	SNS-OT-X**	Date of compilation:	21 Dec 2022	Version:	4
Environmentally ha		-			
Special precautions		-			
•	ng/shipment by rail (R				
UN number:		Not subject to transport regul	ations		
UN proper shipping		-			
Transport hazard cl	lass(es):	-			
Packing group:		-			
Environmentally ha	zardous:	-			
Special precautions	s for user:	-			
Inland wat	erway transport (ADN)	T			
UN number:		Not subject to transport regul	ations		
JN proper shipping name:		-			
Transport hazard class(es):		-			
Packing group:		-			
Environmentally ha	zardous:	-			
Special precautions	s for user:	-			
Transporti	ng/shipment by sea (IN	MDG)			
UN number:		Not subject to transport regul	ations		
UN proper shipping	g name:	-			
Transport hazard cl	lass(es):	-			
Packing group:		-			
Environmentally ha	zardous:	-			
Special precautions	s for user:	-			
Transport in bulk a of MARPOL 73/78 a	according to Annex II and the IBC code:	-			
Transporti	ng/shipment by air (IC	AO-TI/IATA-DGR)			
UN number:		Not subject to transport regul	ations		
UN proper shipping	g name:	-			
Transport hazard cl	lass(es):	-			
Packing group:		-			
Environmentally ha	zardous:	-			
Special precautions	s for user:	-			
Further information	n: -				



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

SECTION 16. Other information			
16.1 Indication of chai	s: -		



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Trading name:			S	LVER NITRATE SOLUTI	ON, STABILIZED			
Product code: SNS-OT-X**			Date of compilation:	21 Dec 2022	Version:	4		
16.2	Abb	previati	ADR: Accord relatif au transport international des marchandises dan route (European Agreement Concerning the International Carriage of Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of EINECS: European Inventory of Existing Commercial Chemical Substa CAS: Chemical Abstracts Service (division of the American Chemica 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				al Carriage of Dan s I Labelling of Cher mical Substances	gerous
16.3.		literat rce of o	ure references and data:	-				
16.4.			ion and procedure ( 3 (CLP)	used to	derive the classification for	mixture according	to Regulation (EG	C)
Classifi	ication	I		Classifi	cation procedure			
-				-				
16.5.	Rele	evant H	l statements (numb	er and f	ull text)			
		272		May intensify fire; oxidiser.				
		314		Causes severe skin burns and eye damage.				
	H:	400		Very toxic to aquatic life.				
		410		Very toxic to aquatic life with long lasting effects.				
		412		Harmfu	I to aquatic life with long la	asting effects		
16.6.	Trai	ning a	advice: -					
16.7.	Further information:		the pro We are instruct	n the product code marks o duct) not responsible for consec ions for use or improper us Il safety data sheet.	quences in case of fa	ailure to comply	0	

# ANNEX: Exposure scenario resulting to chemical safety assessment



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

SECTI	ON 1. Identification of t	he substa	ince/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Trading name: SODIUN		1 THIOSULFATE	THIOSULFATE, 2% SOLUTION		
	Chemical name: -					
	Catalogue number:	NT2-OT	-X**			
1.2.	Relevant identified use	es of the su	ubstance or mix	xture and uses advised against		
	Uses:		For use with	special staining kits.		
	Uses advised against:		Only the ider	ntified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone	number				
	National Protection an	d Rescue	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:	Other information:		-		

SECTIO	ON 2. Hazards identification					
2.1.	Classification of the substance	or mixture				
2.1.1.	Classification according to Reg	gulation (EC) No 12	.72/2008 (CLP)			
	Hazard class and categ	ory code:	Hazard statements*:			
	Not identified as hazardous su	bstance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard	-statements: see S	ection 16			
2.2.	Label elements					
	Product identification:	SODIUM THIC	DSULFATE, 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 Proper	rties:	
	No known endocrine disrupting properties <b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a		
	PBT or a vPvB.		

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

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



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Trading name: Product code:		SODIUM THIOSULFATE, 2% SOLUTION				
		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:		the substance have not been entirely tested.			
4.3.	Indication	dication of any immediate medical attention and special treatment needed				
	-					

SECTI	CTION 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 personne	l				
	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.				



Reference to other sections

6.4.

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

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Trading name: Product code:			SODIUM THIOSULFATE	, 2% SOLUTION	i dge i s	
		NT2-OT-X**	Date of compilation:	21 Dec 2022	Version:	4
6.3.2.	Cleaning	up:	Where possible, the substance commaterial (sand, diatomaceous earlin tightly closed impermeable conventilated storage rooms until dispersons authorized by the Minis Protection. After disposal of the materials with water.	orth, vermiculite). Pl ontainers. Store the isposal. Submit for try of Environment.	ace the waste substance in disposal to th al and Nature	material well e legal
6.3.3.	Other inf	ormation:	-			

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



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8.1. Control para	ameters						
Substance					l exposure limit rt term values	Biological limit values	
				ppm	mg/m ³		
-		-		-	-	No information available	
Substance							
EC No: -		CAS No:	-				
DNEL		•					
				Industrial			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
Critical physical para	meters: s	solubility, fla	immabilit	ty, corrosivity:	-		
				Consumer			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
PNEC							
Environmental protect	ction tar	get		PNEC			
Fresh water				No info	No information available		
Freshwater sediment	s			No info	mation available		
Marine water				No info	mation available		
Marine sediments				No info	mation available		
Food chain				No info	No information available		
Microorganisms in se	ewage tr	eatment		No info	mation available		
Soil (agricultural)				No info	No information available		
Air				No info	mation available		



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Trading name:	S	ODIUM THIOSULFATE	, 2% SOLUTION	
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8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to pr exposure:	revent	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	oment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection				
	Hand protection:		tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN ) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation available		
8.2.3.	Environmental exposure	controls			
	Substance/mixture relate measures to prevent expe		See Section 6		
	Structural measures to pr exposure:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pr exposure:	event	See Section 6		

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



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

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

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



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Product code:	NT2-OT-X**	Date o	f compilation:	21 Dec	2022	Version: 4
[						
Route of exposure:	Method	Species	Effective LD ₅₀ /LC ₅₀ or 2		Exposure time	e Results
Oral exposure:	No information available	-	LD ₅₀		-	-
Dermal exposure:	No information available	-	LD ₅₀		-	-
Inhalation exposure:	No information available	-	LC ₅₀		-	-
Specific tar	get organ toxicity – s	ingle exposure	(STOT SE):			
	Specific	<b>e</b> :	Target or	gan		Note
Oral exposure:	No information		No information available	•	-	
Dermal exposure:	No information	available	No information available	n	_	
Inhalation exposure	: No information	available	No information available	n	-	
Respiratory	virritation:	No infe	ormation availab	le		
Irritation a	nd corrosion		1		1	
	Exposure time	Species	Evaluati	on	Meth od	Note
Skin irritation:	-	-	-			
Eye irritation:	-	-	-			
Sensitizatio	on					
Dermal exposure:	No information avai	ilable				
Inhalation exposure:	No information avai	ilable				
Symptoms	related to the physic	al, chemical an	d toxicological cl	naracterist	ics	
Oral exposure:	No information a	vailable				
Dermal exposure:	No information a	vailable				
Inhalation exposure	: No information a	vailable				
Eye exposure:	No information a	vailable				

Repeated dose toxicity (subacute, subchronic, chronic)



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		Dose	Exposure time	Speo	cies	Method	Evaluation	No	te
Subacute oral	No inf availal	ormation ble	No information available	-	rmation able	No information available	No informatio available	n -	
Subacute dermal	No inf availal	ormation ble	No information available	-	rmation lable	No information available	No informatio available	n -	
Subacute inhalation	No inf availal	ormation ble	No information available		rmation able	No information available	No informatio available	n -	
Subchronic oral	No inf availal	ormation ble	No information available		rmation able	No information available	No informatio available	n -	
Subchronic dermal	No inf availal	ormation ble	No information available	-	rmation able	No information available	No informatio available	n -	
Subchronic inhalation	No inf availal	ormation ble	No information available		rmation able	No information available	No informatio available	n -	
Chronic oral	No inf availal	ormation ble	No information available		rmation able	No information available	No informatio available	n -	
Chronic dermal	No inf availal	ormation ble	No information available		rmation able	No information available	No informatio available	n -	
Chronic inhalation	No inf availal	ormation ble	No information available	-	rmation able	No information available	No informatio available	n -	
Ĩ						·			
Specific	target o	organ toxicit	y – repeated e	xposu	re (STOT I	RE):		1	
		•	ecific effects			Target organ		<u>۸</u>	lote
Subacute oral			ation available			mation available		-	
Subacute dermal			ation available			mation available	-	-	
Subacute inhalati	ion		ation available			mation available		-	
Subchronic oral	-l		ation available			mation available		-	
Subchronic derm			ation available			mation available mation available		-	
Chronic oral	ลแบก		ation available			mation available		-	
Chronic dermal			ation available			mation available			



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Chronic	inhalation	No informat	ion available	No information available	-
	CMR effects	(carcinogenicity	. mutagenicity, r	reproductive toxicity)	
	Carcinogenic			vailable data, the classification criteria	a are not met.
	Mutagenicity	2	Based on av	vailable data, the classification criteria	a are not met.
	Genotoxicity:		Based on av	vailable data, the classification criteria	a are not met.
	Mutagenicity	in-vivo:	Based on av	vailable data, the classification criteria	a are not met.
	Germ cell mu	itagenicity:	Based on av	vailable data, the classification criteria	a are not met.
	Reproductive	e toxicity:	Based on av	vailable data, the classification criteria	a are not met.
11.2	Information of	on other hazard	s:		
11.2.1.		srupting proper			
	contain cor have endocr according to Commission 2017/2100 c	nce/mixture nponents cons rine disrupting o REACH Artic Delegated regu or Commission 05 at levels c	properties le 57(f) or Ilation (EU) Regulation		
11.2.2.	Other inform	ations:			
	_				

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



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

# 12.2. Persistence and degradability

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

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

	oaccumulative potentia					
Pa	rtition coefficient: n-oo	ctanol/wa	ater (log	Kow):		
Value	Concentration	рН	°C	Method	Evaluation	Note
	No information available	-	-	No information available	No information available	-



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v	alue		Species	М	ethod		Evaluation		Note	9
No info availabl	rmation e	No availa	informati able	on No inforn available	nation		No information available	No inf	ormation av	vailable
	Chronic e	ecotoxic	ity							
	Value		Dose	Exposure time	Sp	ecies	Method	Eva	aluation	Note
Chronic	toxicity o	n fish	LC ₅₀	No information available	No infor availa	mation able	No information available	No inf availat	ormation ple	-
	toxicity o ea ( <i>Daphni</i>		EC ₅₀	No information available	No infor availa	mation able	No information available	No inf availat	ormation ble	-
		•			nental o	compan	ments:			
		I DIEUIC			nontal		monte			
	No inforr Surface t	mation a ension:		1						Note
	No inforr	mation a ension: e ion ir	available	Concentra No informa available	ition		Method	able	-	Note
	No inforr Surface to Value No informati	mation a ension: e ion ir	°C °C Io nformation	Concentra No informa	ition		Method	able		Note
	No inforr Surface to Value No informati	mation a ension: e ion ir a	°C Io nformation vailable	Concentra No informa	ition		Method	able		Note
Transpc	No inform Surface to Value No informati available Adsorptio	ension a ension: on / des A/D coo	°C Io nformation vailable	Concentra No informa	ition	No inf	Method			Note
Transpc Soil-war	No inform Surface to Value No informati available Adsorption ort	ion / des A/D coordinations	°C Io nformation vailable sorption efficient	Concentra No informa available	tion tion	No inf	Method Formation avail		- Method	
	No inform Surface to Value No informati available Adsorption ort H ter No avai air No	ion / des A/D coor Henry's	°C Io nformation vailable sorption efficient constant	Concentra No informa available log Kow	tion tion on Na on N	No inf Evapo o inform	Method Formation avail ration rate	No inf availat	- Method ormation ble ormation	



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Product code:		NT2-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	
		PBT and vPvB assessm				
	according	to REACH Article 57(f	t contain components considere ) or Commission Delegated reg			
	Regulatior	n (EU) 2018/605 at leve	els of 0.1% or higher.			
		disrupting properties				
	according		t contain components considere ) or Commission Delegated reg els of 0.1% or higher.			
12.7.	Other adv	erse effects				
		ation available				
SECTION	N 13. Disp	osal considerations				
13.1.	Waste tr	eatment 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 co	odes/waste designatic	ons according to Law:			
	No information available					
	1					
13.1.3.	Waste tr	eatment – relevant inf	formation:			
	No information available					
13.1.4.	Sewage	disposal – relevant inf	formation:			
	Waste m	Waste must not be disposed of into the sewage system.				
13.1.5.	Other di	sposal recommendation	ons:			
	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 provisior	ns:			
	-					



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SECTION 14. Transport information			
Transporting/shipment by road (ADR)			
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmentally hazardous:	-		
Special precautions for user:	-		
Transporting/shipment by rail (R	ID)		
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmentally hazardous:	-		
Special precautions for user:	-		
Inland waterway transport (ADN)	)		
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmentally hazardous:	-		
Special precautions for user:	-		
Transporting/shipment by sea (II	MDG)		
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmentally hazardous:	-		
Special precautions for user:	-		
Transporting/shipment by air (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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Trading name:		SODIUM THIOSULFATE	E, 2% SOLUTION	
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Special precaution	s for user:	-		
Further information	n: -			

Further information:

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

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



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Trading name:		SODIUM THIOSULFATE, 2% SOLUTION					
Product code:		NT2-OT-X**	Date of compilation: 21 Dec 2022 Version: 4				
16.2. Abbreviations and acronyms:		ions and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative				
16.3.	Key literat source of	ture references and data:	-				
16.4.	6.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)						
Classifi	Classification		Classification procedure				
			-				
16.5.	5. Relevant H statements (number		per and full text)				
	H: -		-				
16.6.	Training a	dvice:	-				
16.7.	th Further information: W ir		<ul><li>** "X" in the product code marks different volumes (different packagings of the product)</li><li>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</li></ul>				

#### ANNEX:

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Exposure scenario resulting to Chemical safety assessment