

GROCOTT KIT, STABILIZED

The kit contains:

Borax, solution
Fast Green F.C.F. contrast reagent
Gold chloride, 0.6% solution
Methenamine, solution
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	

SECTION	ON 1: Identification of	the substan	ce/mixture a	nd of the company/undertaking
1.1.	Product identifier			
	Trade name:	Trade name: BORAX, S		
	Chemical name:	-		
	Catalogue number:	BM-X**		
1.2.	Relevant identified us	es of the sub	stance 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 advi	sed	device, regis	is intended for use only as an <i>in vitro</i> diagnostic medical tered at the Agency for Medicinal Products and Medical there is no reason to use it for other purposes.
1.3.	Details of the supplier	of the safet	y data sheet	
	Supplier:		BioGnost Ltd	1.
	Address:		Medjugorska	a 59, Zagreb
	Telephone number:		+385 1 2409	997
	Telefax:		+385 1 2404	1039
	e-mail of competent բ	person:	msds@biogı	<u>nost.hr</u>
	National contact:		-	
1.4.	Emergency telephone	numbers		
_	National Protection a	nd Rescue D	irectorate:	112
	Medical information:			+385 1 2348 342
	Other information:			-

SECTIO	CTION 2. HAZARDS IDENTIFICATION						
2.1.	Classification of the substance	ce or mixture					
2.1.1.	Classification according to R	egulation (EC) No 12	72/2008 (CLP)				
	Hazard class and cat	tegory code:	Hazard statement*:				
	Repr. 1B H360FD						
2.1.2.	Additional information						
	-						
* For fu	ull text of Hazard- and EU Haza	ard-statements: see S	ECTION 16				
2.2.	Label elements						
	Product identification: BORAX, SOLUTION						
	Identification number:	nber: -					
	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			

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



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

SECTI	TION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:	CO ₂ , dry powder, water foam.				
	Unsuitable extinguishing media:	For this substance/mixture no limitations of extinguishing agents are given.				
5.2.	Special hazards arising from the substance or mixture					
	Hazardous by products of fire:	Formation of toxic gases is possible during heating or in case of fire.				
5.3.	Advice for firefighters	Advice for firefighters				
	Use a self-contained open-circuit o	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4.	Additional information					
	Collect contaminated firefighting water separately.					
	Do not contaminate the environment with extinguishing media.					

SECTIO	ECTION 6. Accidental release measures				
6.1.	Personal precautions, protective ed	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 those members without protective equipment. Do not breathe in vapor ensure adequate ventilation and avoid contact with skin and eyes Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				



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6.2.	Environmental precautions:	Environmental precautions:		
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and materials for o	containment and cleaning up		
6.3.1.	Bunding, covering of drains; capping Sand or clay barriers. procedures:			
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	ECTION 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 heat and ignition. Carry out measures for preventing static electricity.		
	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. Thor	oughly wash	hands after work and before eating.		
7.2.	Conditions for safe storage, including any incomp	atibilities			
	Technical measures and storage conditions: well vent		ntly closed and upright set containers in a ted storage rooms, and away from sources alight, and other incompatible substances.		
	Packaging materials: Manufac		acturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the container tightly closed.			



Environmental protection target

Advices for storage equipment:

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

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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

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				proper ventilation.							
	Further information on storage conditions:			ns:	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 en	d use(s)									
	Recomme	ndations:				_					
	Industrial sector specific solutions:				-						
SECTIO	ON 8. Exposi	ıre contr	ols/persona	al protec	tion						
8.1.	Control pa	rameters									
	Substance		CAS I	No	Occupat values,		exposui term v		Bio	ologic	cal limit values
					ppm	1	mg	/m³			
-	-		-		-			-	-		
Substa	nce: -		_				1				
EC No:	-		CAS No:	-							
DNEL											
					Indust	rial		1		ı	
Route	of exposure:	Acı	ite effect local		Acute ef				ic effect ocal		Chronic effect systemic
Oral		-		-				-		-	
Inhalat	tion	-	-					-		-	
Derma	nl	-		-				-		-	
Critical	l physical par	ameters:	solubility, fla	ımmabili	ty, corrosiv	vity:	_				
Consumer											
Route of exposure:		Acu	ite effect		Acute ef	fect			ic effect		Chronic effect
Troute or exposurer			local		system	iic		lo	ocal		systemic
Oral		-				-		-			
Inhalat	tion	-		-				-		-	
Derma	ıl	-		-				-		-	
PNEC											

PNEC



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Fresh wat	ter	No information available	
Freshwate	er sediments	No information available	
Marine w	rater	No information available	
Marine se	ediments	No information available	
Food cha	in	No information available	
Microorg	anisms in sewage treatment	No information available	
Soil (agric	cultural)	No information available	
Air		No information available	
8.2.	Exposure controls		
8.2.1.	Appropriate engineering controls	S	
	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.	
8.2.2.	Personal protection equipment:		
8.2.2.1.	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)	
8.2.2.2.	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	
	тапа ргоцесцоп.	Glove thickness: 0.7 mm Break through time: 480 min Splash contact: Glove material: Nitrile rubber Glove thickness: 0.4 mm Break through time: 35 min	



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	Other skin protection:	Complete suit protecting against chemicals, flame retardant antistatic protective clothing (EN 13688). The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
8.2.2.3.	Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use type ABEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

1.	Information on basic physical and chemic	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		
	-		

SECTIO	SECTION 10.: Stability and reactivity			
10.1.	Reactivity:	No relevant information available.		
10.2.	Chemical stability:	The product is chemically stable under recommended storage conditions.		
10.3.	Possibility of hazardous reactions:	No dangerous reactions known.		
10.4.	Conditions to avoid:	No information available		
10.5.	Incompatible materials:	No information available		
10.6.	Hazardous decomposition products:	No information available		

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



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Aspirat	ion hazard	d:	-					
:								
Irritatio	n and cor	rosion				:		
			osure ime	Species	Evaluatio n	Metho	d	Note
Skin corrosion/ii	ritation	-	-		-	-	-	
Serious eye damage/irritatio	n	-	-		-	-	-	
Sensitiz	ation							
Skin sensitizatio	n:	No informa	ntion available	<u> </u>				
Respiratory sensitization:		No informa	ation available					
Sympto	oms relate	ed to physic	cal, chemical, a	and toxicolo	gical prop	erties		
Oral exposure:	naus hear vent of ca	ea, dazed f t/circulator ricular fibril	eeling-uncon y system such llation througl t; functional d	sciousness/ n as vasodila h cardiac se	coma, poss ition (flush) nsitization)	sible hypotl), hypotens), danger o	nermia, reac ion, arrhyth f central resp	
Dermal exposur	e: Caus dry s		ation, redness	s, swelling. F	Prolonged	or repeated	d contact ca	uses defatting and
Inhalation exposure:	brea	thing and s	•	igh concent	ration vapo	or inhalatio	n may cause	roat, cough, difficul e headache, malaise orders.
Eye exposure:	Vapors irritate eyes. Splashing may cause irritation and redness, lacrimation, pain, swelling, blurred vision, photophobia.							
Reneat	ed dose t	ovicity (sub	acute, subchr	onic chroni	c)			
Repeat		oxicity (sub)	Exposure time	Species	~)	Method	Evaluatio n	Note
Subacute oral	No in availab	formation le	No information available	No in available	formation	No informa tion availabl e	No informati on available	-



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Subacute dermal	No information available	No information available	No information available	No informa tion availabl e	No informati on available	-
Subacute inhalation	No information available	No information available	No information available	No informa tion availabl e	No informati on available	-
Subchronic oral	No information available	No information available	No information available	No informa tion availabl e	No informati on available	-
Subchronic dermal	No information available	No information available	No information available	No informa tion availabl e	No informati on available	-
Subchronic inhalation	No information available	No information available	No information available	No informa tion availabl e	No informati on available	-
Chronic oral	No information available	No information available	No information available	No informa tion availabl e	No informati on available	-
Chronic dermal	No information available	No information available	No information available	No informa tion availabl e	No informati on available	-
Chronic inhalation	No information available	No information available	No information available	No informa tion availabl e	No informati on available	-
			(07.5			
Specific	target organ toxicit	· · ·	-	- .	***	
		Specific e	rrects	Target org	jan	Note



higher.

Other informations:

thoroughly investigated.

11.2.2.

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Subacut	ubacute oral No information		n available	No information available	-		
Subacut	te dermal		No information	າ available	No information available	-	
Subacut	te inhalatio	on	No information	n available	No information available	-	
Subchro	onic oral		No information	n available	No information available	-	
Subchro	onic derma	<u> </u>	No information	n available	No information available	-	
Subchro	onic inhalat	tion	No information	n available	No information available	-	
Chronic	oral		No information	າ available	No information available	-	
Chronic	dermal		No information	າ available	No information available	-	
Chronic	inhalation		No information	n available	No information available	-	
	Mutagenicity <i>in-vitro</i> : Genotoxicity: Mutagenicity <i>in-vivo</i> : Germ cell mutagenicity: Reproductive toxicity:			No information No information No information No information May damage	on available on available	nage fertility	
	Summary propertie		of the CMR	No information	on available		
11.2.	Informati	on on other haz	zards:				
11.2.1.	Endocrine	e disrupting pro	perties:				
	compone disrupting Article regulation	ents considered g properties a 57(f) or Con n (EU) 2017/2	does not co to have endo ccording to RE nmission Deleg 100 or Commi 5 at levels of 0.1	crine EACH gated ssion			

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been



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Produ	ct code:		BO-OT-X*	* [Date of compilation:	14 November 20	022 Ve	ersion: 3
Fish			LC ₅₀	96 hours	-	No information available	1	-
Crusta	cea:		EC ₅₀	48 hours	-	No information available	า	-
Algae/ plants:	aquatic		IC ₅₀	72 hours	-	No information available	า -	-
Other	organism	ns:	-	-	-	-	-	-
Chronic (long-term) toxicity		Dose	Exposure time	e Species	Method	Evalua	ation No	
Fish	Fish LC ₅₀		LC ₅₀	96 hours	-	-	-	-
Crusta	cea:		EC ₅₀	48 hours	-	-	-	-
Algae/ plants:	aquatic		IC ₅₀	72 hours	-	-	-	-
Other	organism	ns:	-	-	-	-	-	-
12.2.			and degrad	dability				
	Abiotio		radation	half lives	NA-41I	F I	.:	Note
	Degradation half-lives		Method		Evaluation			
Marine water	I No information available		No information ava	ilable No informa available	ition	-		
Fresh v	Fresh water No information available		available	No information ava	ilable No informa	ition	-	
Air		No i	nformation	available	No information ava	ilable No informa	ition	-

	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									
Time (days)	Method	Evaluation	Note						
No information available	No information available	No information available	-						
	Time (days) No information	No information No information available	Time (days) No information available No information available						

12.3. Bioaccumulative potential



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	Octa	nol-wa	ater partition	coeffi	cient (log Kov	v)						
Value	e	Con	centration	рl	-	°C		Method		Evaluation	1	No	te
_		No availa	information ble	-		-		information ilable	-		-		
	Bioc	oncent	tration Factor	· (BCF)									
V	alue		Spe				M	1ethod	E	valuation		Not	e
-			<u> </u>			No inf	orm	ation available	_		-		
	Chrc	nic ec	otoxicity										
	Val	ue	Do	ose	Exposure time			Species	Μ	ethod	Evaluation		Note
Chronic	Chronic toxicity on fish LC ₅₀		fish LC50		No information available		i	No information available		rmation lable	No information available		-
Chronic crustace		-	EC ₅₀		No information available			No information available		rmation lable			-
12.4.	Mob	ility in	soil										
	Knov	wn or p	oredicted dis	tributio	on in e	environr	nent	tal compartment	s:				
	No i	nforma	ation availabl	e									
	Surfa	ace ten	sion:										
	Value		°C			Concentration	M		Method		Note		
No information available		No information available			o information vailable		No information ava		vailable	-			
	Adsorption / desorption												
Transpo		A/[D coefficient ry's constant		log Kow			Evaporation rate		Metho	d	N	ote



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Soil-Water	No information available	No information available	No information available	No information available	-		
Water-Air	No information available	No information available	No information available	No information available	-		
Soil-Air	No information available	No information available	No information available	No information available	-		
12 F D	li (DDT D D						
	esults of PBT and vPvB as			la a sidla su usausi adaud	hi a a a su una ula tivo a un al		
	iis substance/mixture co xic (PBT), or very persiste						
:		-			-		
12.6. Er	docrine disrupting prop	erties					
	is substance/mixture co						
to	xic (PBT), or very persiste	ent and very bioaccur	nulative (vPvB)	at levels of 0.1% or hi	gher.		
12.7. Ot	ther adverse effects						
	scharge into the environ	ment must be avoide	2d				
Di	scharge into the environ	ment mast be avoide	.				
SECTION 1	3. Disposal considerati	ons					
	Waste processing metho						
<u> </u>	· · ·						
13.1.1.	Product/Packaging dispo	osal:					
	Submit for disposal to th	e legal person autho	rized by the Mi	nistry of Environment	al and Nature		
	Protection.						
13.1.2.	Waste codes/waste designate	anations assording to	Low				
	Disposal must be made a						
	Disposai must be made (according to official i	eguiations.				
13.1.3.	Waste tretment – relevant information						
	No information available						
<u> </u>							
13.1.4.	Sewage disposal – releva	nt information:					
	Waste must not be dispo	osed of into the sewa	ge system.				
13.1.5.	Other disposal recommendations:						



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	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.				
13.1.6.	Relevant Community provisions:				
	Disposal must be made acc	cording to official regulations.			
SECTION	1 14. Transport information				
	Transporting/shipment by ro	ad (ADR)			
UN num	ber:	Not subject to transport regulations.			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing	group:	-			
Environn	nental hazards:	-			
Special p	recautions for user:	-			
Transporting/shipment by rail (RID)					
UN num	ber:	Not subject to transport regulations.			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing	group:	-			
Environn	nental hazards:	-			
Special p	recautions for user:	-			
	Transporting/shipment by in	land waterways (ADN)			
UN num	ber:	Not subject to transport regulations.			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing	group:	-			
Environn	nental hazards:	-			
Special p	recautions for user:	-			
	Transporting/shipment by sea (IMDG)				
UN number:		Not subject to transport regulations.			
UN proper shipping name:		-			
Transport hazard class(es):		-			
Packing	group:	-			
Environn	nental hazards:	-			
Special precautions for user:		-			



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Trade name:	BORAX, SOLUTION					
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Transport in bulk condition in accordance with Annex II. of MARPOL 73/78 and IBC Codex:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

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

SECTIO	ON 16. Other information			
16.1.	Indication of changes:	-		
16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classifi	ication	Classification procedure		
_		-		
16.5.	Relevant H statements (num	ber and full text)		
	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.		



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Trade name:	BORAX, SOLUTION					
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ANNEX: Exposure scenario resulting to Chemical safety assessment
-



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT			
Product code:	FGRK-OT-X**	Date of compilation: 23 Dec 2022	Version:	4

SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking
1.1	Product identifier			
	Trading name:	FAST GREE	N F.C.F. CC	ONTRAST REAGENT
	Chemical name:	-		
	Catalogue number:	FGKR-OT-X	**	
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against
	Uses:		Counter	stain used with Grocott staining kit.
	Uses advised against:		Only the	identified uses are advised.
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.	
1.3	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.	
	Address:		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997	
	Telefax.:		+385 1 2404039	
	e-mail of competent person:		msds@biognost.hr	
	National contact:		-	
1.4	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	112
	Medical information:			-
	Other information:			-

SECTIO	SECTION 2. Hazards identification			
2.1	Classification of the substance or mixture			
2.1.1	Classification according to Regu	ulation (EC) No 12	.72/2008 (CLP)	
	Hazard class and catego	ory code:	Hazard statements*:	
	Not identified as hazardous sub	ostance.	-	
2.1.2.	Additional information			
	-			
*For ful	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16	
2.2	Label elements			
	Product identification:	FAST GREEN F.C	.F. CONTRAST REAGENT	
	Identification number:	-		
	Authorization number:	-		
	Hazard pictograms:	-		



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT			
Product code:	FGRK-OT-X**	Date of compilation: 23 Dec 2022	Version:	4

	Signal word:	-	
	Hazard statements:	-	
	Precautionary statements:	-	
	Supplemetal hazard information (EU):	-	
2.3	Other hazards		
	The product has no other know	n specific hazards for human or environment.	
	Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.		
Endocrine disrupting property: Based on available data, does not contain		Based on available data, does not contain endocrine disruptors.	

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



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

SECTI	SECTION 5. Firefighting measures			
5.1	Extinguishing media	Extinguishing media		
	Suitable extinguishing media:	water spray, dry powder, CO2 or alcohol resistant foam		
	Unsuitable extinguishing media:	Water with full jet.		
5.2	Special hazards arising from the su	ubstance or mixture		
	Hazardous combustion products:	no information available		
5.3	Advice for firefighters			
	Use a self-contained open-circuit	compressed air breathing apparatus and fireproof clothing.		
5.4	Additional information			
	Cool endangered receptacles with water spray. Collect contaminated firefighting water separately. Do not contaminate the environment with extinguishing media.			

SECTIO	SECTION 6. Accidental release measures			
6.1	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	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 Nation Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.		



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Trading name:		FAST GREEN F.C.F. CONTRAST REAGENT		
Product code:	FGRK-OT-X**	Date of compilation: 23 Dec 2022	Version:	4

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

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	n:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incom	npatibilities			
	Technical measures and storage conditions:	well ventil	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	lanufacturer's original packaging.		
	Requirements for storage rooms and vessels: Keep away from food and drink. Keep the contain tightly closed.				
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper .		



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Tradi	ing name:			FAST GR	EEN F.C.I	F. CON	TRAST R	EAGENT		
Prod	uct code:	FGRK-C	DT-X**	Date o	of compil	ation:	23 Dec	2022	Version:	4
Further information on storage co		ge conditions:	and chen	do not ι	use empty o not stor	container	al in the storage ross for storing othe ompatible materia	r		
7.3	Specific e	nd use(s)								
		endations:			_					
	Industrial	sector spe	cific solu	tions:	-					
	•									
SECT	ION 8. Expos	sure contr	ols/perso	onal protection						
8.1	Control p	arameters								
	Substance	e		CAS No	exp value	cupation osure lines/short values	mit term	Biol	ogical limit values	;
					ppm	mg	g/m³			
-				-	-		-		-	
Subst	ance name:	-								
EC No		_	CAS No)· -						
DNEL			C/15 140	· [
DIVE	_			In	dustrial					
Route		Act effect		Acute effect systemi		Chro			Chronic effect systemic	
Oral		-		-	-			-	•	
Inhala	ation	-		-	-			-		
Derm	al	-		-	-			-		
Critica	al physical pa	rameters:	solubility,	flammability, co	rrosivity:		_			
				Co	nsumer					
			Acute effect systemi	ic	Chro effect			Chronic effect systemic		
Oral	Oral		-	-			-			
Inhala	nalation		-	-			-			
Derm	al	-		-	-			-		
PNEC										
Enviro	onmental pro	tection tar	get		PNEC					
Fresh	water				no infor	mation a	available			
Fresh	water sedime	ents	_		no information available				_	



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Trading name:	F.A	AST GREEN F.C.F. CONT			
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Marine w			no information available	
Marine se	ediments		no information available	
Food cha	in		no information available	
Microorg	anisms in sewage treatment		no information available	
Soil (agricultural)			no information available	
Air			no information available	
8.2	Evposure controls			
8.2.1.	Exposure controls Appropriate angineering control	.lc		
0.2.1.	Appropriate engineering contro	015	Lies the weeduct in well ventileted rooms. Lies nersonal	
	Substance/mixture related measure prevent exposure during identifications		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 prevent exposure:		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	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.	
8.2.2.2.	Skin protection	i		
	Hand protection:		otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min	
	Other skin protection:	footwe entire imperr	every day work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.	
8.2.2.3.	Respiratory protection:	with a	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No info	ormation available	
8.2.3.	Environmental exposure control	ls		



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

1	Information on basic physical and	chemical properties		
		Value	Method	
	Physical state:	liquid	No information available	
	Colour:	green	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	potentiometric measurement	
	Flammability:	No information available	No information available	
	Lover and upper explosion limit:	No information available	No information available	
	Flash point:	No information available	No information available	
	Auto-ignition temperature:	No information available	No information available	
	Decomposition temperature:	No information available	No information available	
	рН:	No information available	No information available	
	Kinematic viscosity:	No information available	No information available	
	Solubility:	No information available	No information available	
	Partition coefficient noctanol/water (log value):	No information available	No information available	
	Vapour pressure:	No information available	No information available	
	Density and/or relative density:	No information available	No information available	
	Relative vapour density:	No information available	No information available	
	Particle characteristics:	No information available	No information available	
9.2	Other information			

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



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT			
Product code:	FGRK-OT-X**	Date of compilation: 23 Dec 2022	Version:	4

10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No 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

11.1 Information	n on hazard o	classes as defined in	n Regulation	(EC) No 1272	2/2008			
Acute toxi	city:							
Route of exposure:	Method	Species		0 ₅₀ /LC ₅₀ or 「E _{mix}	Exposure ti	me	Results	
Oral:	-	No information available		_	No informatio available	n	-	
Dermal:	-	No information available			No informatio available	n	-	
Inhalation:	-	No information available			No informatio available	n	-	
Ė								
Specific ta	T	xicity – single expo	sure (STOT	SE):				
		pecific effects		Target o			Note	
Oral:	No informa	tion available	No	nformation a	vailable	-		
Dermal:	No informa	tion available	No	No information available -				
Inhalation:	No informa	tion available	No	No information available -				
Aspiration	hazard:	No	o informatio	n available.				
ş - -		i .						
Irritation a	nd corrosion							
	Ехро	osure time	Species	Evaluatio	n Method		Note	
Skin corrosion/irritation:	-	-		-	-	-		
Serious eye damage/irritation	-	-		-	-	-		
Sensitizati	on							
Skin sensitization:	-							
Respiratory sensitiz	ation: -							



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Trading name:	F/	FAST GREEN F.C.F. CONTRAST REAGENT							
Product code:	FGRK-OT-X**	Date of compilation: 23 Dec 2022	Version:	4					

7 1	ms rel	ated to the ph	nysical, chemic	al and toxicolog	gical characterist	ics	
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 dos	e 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 avail	information able	No information available	No information available	No information available	No information available	
Subchronic oral	No avail	information able	No information available	No information available	No information available	No information available	-
Subchronic dermal	No avail	information able	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No avail	information able	No information available	No information available	No information available	No information available	-
Chronic oral	No avail	information able	No information available	No information available	No information available	No information available	-
Chronic dermal	No avail	information able	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available		No information available	No information available	No information available	No information available	-



Subacute oral

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No information available

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Product code:	FGRK-OT-X**	Date of compilation: 23 Dec 2022	Version:	4					

No information available

Subacut	e dermal	No information available		No information available	-		
Subacut	e inhalation	No information available		No information available	-		
Subchro	nic oral	No information available		No information available	-		
Subchro	nic dermal	No information available		No information available	-		
Subchro	nic inhalation	No information available		No information available	-		
Chronic	oral	No information available		No information available	-		
Chronic	dermal	No information available		No information available	-		
Chronic	inhalation	No information available		No information available	-		
	CMR effects (c	arcinogenicity; mutagenicity; re	Based on av	xicity) vailable data, the classifica	ition criteria are not		
	Mutagenicity i		met. Based on available data, the classification criteria are not met.				
	Genotoxicity:		Based on av	vailable data, the classifica	tion criteria are not		
	Mutagenicity i	n vivo:	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
	Germ cell muta	agenicity:					
	Reproductive t	oxicity:					
	Summary of properties:	evaluation of the CMR	Based on ava	ailable data, the classificat	ion criteria are not		
11.2.	Information or	other hazards:					
11.2.1.	Endocrine disr	upting properties:	-				
	Based on avai endocrine disr	lable data, does not contain uptors.	_				
11.2.2.	Other informat	tions:					
	_						

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



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Trading name:	F.A	FAST GREEN F.C.F. CONTRAST REAGENT								
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4					

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

Abiotic degradation

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

			on

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



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Tradir	ng name:			ļ	FAST GI	REEN	F.C.F. C	CONTRAST R	EAGEN	Т		
Produ	ıct code:	FGRK-OT-X** Date of compilation: 23 Dec 2022				Version:	4					
12.3	Bioaccum	ılative p	ootential									
		-	rtition coeff	icient (log Kow)						
Valu	ue Coi	ncentra	tion p	Н	°C	М	ethod	Evalu	ation		Note	
-	-		-		-	-		-		-		
	Pioconcon	tration	factor (BCF)									
,	Value	tiation	Species		<u> </u>	Method		Evaluati	on		Note	
	ormation	No	inform	ation	No info	ormatio	on	No informati				
availab	available available		ole		availab	le		available		-		
	Chronic ed	otoxicit	tv									
				Exp	osure				- I			
	Value		Dose		time		ecies	Method	Evail	ıation	Note	
Chroni	ic toxicity on	fish	LC ₅₀	No information		No information		No information	No inform	ation	_	
Cilioni	ic toxicity on	11311	LC50		ormation inform iilable availal			available	available			
Chroni	ic toxicity on			No	1			No	No			
crusta	cea (<i>Daphnia</i>)	EC ₅₀	avail	mation able	availa	mation able	information available	inform availab		-	
			<u> </u>	1		<u>I</u>		<u>i</u>	<u> </u>		·	
12.4	Mobility in	soil										
	Known or	predict	ed distributi	on in e	environm	ental o	compart	ments:				
	No inform		/ailable									
	Surface te	nsion:										
	Value		°C	С	oncentra	ition		Method			Note	
	No informatio	No n inf	o formation		informa	tion		ormation	_			
	available	av	ailable	ava	ilable		availal	oie				



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Ad	sorption / desorption						
Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note		
Soil-water	No information available	No information available	No information available	No information available	-		
Water-air	No information available	No information available	No information available	No information available	-		
Soil-air	No information available	No information available	No information available	No information available	-		
	sults of PBT and vPvB asses sed on available data, the p		t contain any PRT or y	PvR substances			
Das	sea on available data, the p		- Contain any 1 bi or v	T VD Substances.			
12.6. End	docrine disrupting properti	ies					
	sed on available data, does		docrine disruptors.				
12.7. Otl	Other adverse effects						
No	information available						
SECTION 1	3. Disposal consideration	s					
13.1 V	Vaste treatment methods						
	Product/Packaging disposa						
	Submit for disposal to the learning of the lea	egal person aut	horized by the Ministr	y of Environmental	and Nature		
13.1.2. V	Vaste codes/waste designa	tions according	to Law:				
	5 01 10*: Packaging that c ubstances	ontains residual	hazardous substance	s or is contaminate	d with hazardous		
	Vaste treatment – relevant	information:					
١	lo information available						
10.1							
13.1.4. S	iewage disposal – relevant	intormation:					



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	Waste must not be disposed of	of into the sewage system.			
13.1.5.	Other disposal recommendati	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.				
13.1.6.	Relevant Community provisions:				
	-				
SECTION	I 14. Transport information				
	Transporting/shipment by road	(ADR)			
UN numl	per:	Not subject to transport regulations			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	nentally hazardous:	_			
Special p	recautions for user:	-			
	Transporting/shipment by rail (F	RID)			
UN number:		Not subject to transport regulations			
UN prop	er shipping name:	-			
Transport hazard class(es):		-			
Packing (group:	-			
Environmentally hazardous:		-			
Special p	recautions for user:	-			
	Inland waterway transport (ADN				
UN numl	per:	Not subject to transport regulations			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing (group:	-			
Environm	nentally hazardous:	-			
Special p	recautions for user:	-			
,	Transporting/shipment by sea (I	MDG)			
UN numl	per:	Not subject to transport regulations			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	_			



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

15.1 S	Safety, health and environmental regulations/legislation specific for the substance or mixture		
E	U regulations		
А	authorization and/or re	estrictions of use	
А	uthorizations:	-	
R	Restrictions:	-	
0	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 Counce Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2006 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).	



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

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

ANNEX: Exposure scenario resulting to chemical safet	y assessment
-	



amended by Regulation (EU) No. 2020/878

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

SECTION	ON 1: Identification of t	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	GOLD CHLC	ORIDE, 0.6	% SOLUTION		
	Chemical name:	-				
	Catalogue number:	ZK06-OT-X**				
1.2	Relevant identified uses of the substance or mixture and uses advised against					
	Uses:		Component of many special staining kits.			
	Uses advised against:		Only the identified uses are advised.			
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier of the safety data sheet					
	Supplier: Address: Telephone number: Telefax.:		BioGnost Ltd.			
			Medjugorska 59, Zagreb			
			+385 1 2409997			
			+385 1 2404039			
	e-mail of competent person:		msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone number					
	National Protection and 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 Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and category code:		Hazard statements*:				
	Not identified as hazardous substance.		-				
2.1.2.	Additional information						
	-						
*For full text of Hazard- and EU Hazard-statements: see SECTION 16							
2.2	Label elements						
	Product identification:	GOLD CHLORID	GOLD CHLORIDE, 0.6% SOLUTION				
	Identification number:	-					
	Authorization number:	-					
	Hazard pictograms:	-					



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Trading name:	GOLD CHLORIDE, 0.6% SOLUTION					
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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	Endocrine Disrupting Propert	ies:		
	No known endocrine disrupting	g properties		
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is n PBT or a vPvB.			

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

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



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

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

SECTIO	ON 6. Accidental release meas	ures			
6.1	Personal precautions, protective equipment and emergency procedures				
6.1.1.	1. For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for con-	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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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 Environmenta and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal information.			

SECTIO	ON 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generation:		Secure proper ventilation.		
	Measures to protect the environment: Other measures:		Prevent spilling into the sewage system and waterways.		
			Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incom	npatibilities			
	Technical measures and storage conditions: well ventila		phtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	urer's original packaging.		
	Requirements for storage rooms and vessels: Keep away tightly clos		y from food and drink. Keep the containers		
	The storage must be re		ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper I.		



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

SECTION 8. Expos	sure contr	ols/perso	nal pi	rotect	ion				
8.1 Control p	arameters								
Substance	2	CA				Occupational exposure limit values/short term values			Biological limit values
Substance	5	CA	3 110	-		opm	mg/m³		biological littlit values
-	-		-		•	-	-	-	
		•		•					
Substance name:	-								
EC No:	i -	CAS No	:	-					
DNEL									
	_				Ind	ustrial			
Route of	Acı	ute		Acute	е		Chronic		Chronic
exposure:	effect	local	effe	ct syst	temic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
Critical physical pa	rameters:	solubility,	flamm	nability	y, corr	osivity:	-		
					Cor	sumer			
Route of	A	cute		Acut	e		Chronic		Chronic
exposure:	effec	t local	effe	ect sys	temic		effect local		effect systemic
Oral	-		-			-			-
Inhalation			-						-
Dermal	-		-						-
PNEC									
Environmental pro	tection tar	get				PNEC			
Fresh water						no information available			
Freshwater sediments					no information available				
Marine water						no information available			
Marine sediments						no inform	nation available		



Food chain

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no information available

Microorga	Microorganisms in sewage treatment		no information available
Soil (agric	:ultural)		no information available
Air			no information available
8.2	Exposure controls		
8.2.1.	Appropriate engineering controls		
0.2.1.	Appropriate engineering controls		Heatha product in well ventilated rooms. Heaparconal
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:		In accordance with Section 7.
	Organisational measures to prevenexposure:	t	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent expo	osure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.
8.2.2.	Personal protection equipment		
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lo levels of concentration in air; protective gas mask that cover entire face in case of higher levels of concentration in air.	
8.2.2.2.	Skin protection		
		-	otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min
	Other skin protection:	footwe entire f impern	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No info	ormation available
8.2.3.	Environmental exposure controls		
	Substance/mixture related measures to prevent exposure:	See Se	ction 6



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

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

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



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

11.1 Inform	ation on haz	zard classes	as defined in	n Regula	ntion (EC) No 12	272/20	800		
Acute 1	toxicity:								
Route of exposure:	M	ethod	Species	Dos	e LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure tir	me	Results
Oral:	No info	ormation ole	-	No information available			-		-
Dermal:	No info	ormation ble	-	No ir availa	formation able		-		-
Inhalation:	No info	ormation ble	-	No ir availa	formation able		-		-
Specifi	c target org	an toxicity –	single expo	sure (ST	OT SE):				
		Specific	effects		Target organ				Note
Oral:	No inf	ormation av	ailable		No information available			-	
Dermal:	No inf	ormation av	ailable		No information available			-	
Inhalation:	No inf	ormation av	ailable	No information available			able	-	
Aspirat	ion hazard:		No	o inform	ation available.				
Irritatio	on and corre	sion						:	
		Exposure t	ime	Specie	s Evalua	tion	Method		Note
Skin corrosion/irritat	ion:		-		-		-	-	
Serious eye damage/irritatio	on -		-		-		-	-	
Sensiti	zation								
Skin sensitizatio	n:	No inforr	nation availa	able.					
Respiratory sens	sitization:	No inforr	nation availa	ahle					



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Oral exposure:		No informati	on available.				
Dermal exposure	<u>)</u> :	No informati	on available.				
Inhalation expos	ure:	No informati	on available.				
Eye exposure:		No informati	on available.				
Repeate	ed dos	e 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	-	information lable	No information available	No information available	No information available	No information available	_
Subchronic oral		information lable	No information available	No information available	No information available	No information available	—
Subchronic dermal	_	information lable	No information available	No information available	No information available	No information available	—
Subchronic inhalation		information lable	No information available	No information available	No information available	No information available	—
Chronic oral		information lable	No information available	No information available	No information available	No information available	–
Chronic dermal		information lable	No information available	No information available	No information available	No information available	-
Chronic inhalation		information lable	No information available	No information available	No information available	No information available	-



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Subacute oral	No information availa	ble	No information available	-				
Subacute dermal	No information availa	ble	No information available	-				
Subacute inhalati	on No information availa	ble	No information available	-				
Subchronic oral	No information availa	ble	No information available	-				
Subchronic derma	No information availa	ble	No information available	-				
Subchronic inhala	tion No information availa	ble	No information available	-				
Chronic oral	No information availa	ble	No information available	-				
Chronic dermal	No information availa	ble	No information available	-				
Chronic inhalation	Chronic inhalation No information available		No information available	-				
CMR effe	ects (carcinogenicity; mutager	nicity; re	eproductive toxicity)					
Carcinog	enicity:	Ва	sed on available data, the classification	criteria are not met.				
Mutager	nicity <i>in vitro</i> :	Ва	Based on available data, the classification criteria are not met.					
Genotox	icity:	Ва	sed on available data, the classification	criteria are not met.				
Mutager	nicity <i>in vivo</i> :	Ва	sed on available data, the classification	criteria are not met.				
Germ ce	ll mutagenicity:	Ва	Based on available data, the classification criteria are not met.					
Reprodu	ctive toxicity:	Ва	Based on available data, the classification criteria are not met.					
Cummon	, of avaluation of the	CMD	Deced on available data the classifi	antino suitorio ara not				
Summar propertie		CIVIK	Based on available data, the classifi met.	cation criteria are not				
			at.					
11.2 Informat	ion on other hazards:							
11.2.1. Endocrin	e disrupting properties:							
compone disruptin Article regulatio	estance/mixture does not cents considered to have end g properties according to I 57(f) or Commission Dele on (EU) 2017/2100 or Common (EU) 2018/605 at levels of C	locrine REACH egated nission						
	formations:							

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

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	-
		_	_	_	_	_

Abjotic degradation

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

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

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



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Trading name:		GOLD CHLORIDE, 0.6% SOLUTION							
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12.3	Bioaccumu	ulative p	otential									
		<u> </u>	tition coeffi	cient (log Kow	/)						
Valu	e Coi	ncentrat	ion p	Н	°C	М	ethod		Evalua	ation		Note
-	-		-		-	-			-		-	
	Bioconcen	tration 1	factor (BCF)									
V	alue		Species			Method	d		Evaluation	on		Note
	No information No information			ation		ormatic	on		informatio	on	_	
availabl	available available			availak	ole		avai	ilable				
	Chronic ec	otoxicit	у									
	Value		Dose		osure ime	Shecies IVIE		lethod	Evaluation		Note	
Chronic	toxicity on	fish	LC ₅₀	No information available		No information available		1	ormation ilable	No inform availab		-
	toxicity on ea (<i>Daphnia</i>)	EC ₅₀		No information available				ormation ilable	No inform availab		-
			i	ı		-		:				i
12.4	Mobility in	soil										
		•	ed distributi	on in e	environn	nental d	compart	ment	s:			
	No inform		ailable									
	Surface te	nsion:	°C		oncentr	ation		Mo	thod			Note
	No No No No		informa		No inf	orma	Method ormation ole			IVULE		



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

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



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

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



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

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

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



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Trading name:		GOLD CHLORIDE, 0.69	6 SOLUTION		
Product code:	ZK06-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

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

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

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trade name:	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 use	s of the suk	stance or mix	cture and uses advised against	
	Uses:		For use w	rith Grocott and P.A.S.M./Jones kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet				
	Supplier: BioG		oGnost Ltd.	Gnost Ltd.	
	Address:	М	edjugorska 59	djugorska 59, Zagreb	
	Telephone number:	+3	385 1 2409997	35 1 2409997	
	Telefax:	+3	385 1 2404039	5 1 2404039	
	e-mail of competent p	erson: <u>m</u>	sds@biognos	ds@biognost.hr	
	National contact:	nal contact:			
1.4.	Emergency telephone	numbers			
	National Protection an	d Rescue D	irectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 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 th	e full text of H and EUH phra	ses see Section 16.				
2.2.	Label elements					
	Product identification:	METHENAMINE	, SOLUTION			
	Identification number:	Identification number: -				
	Authorisation number: -					



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

	Hazard pictograms:	GHS07	
	Signal word:	Warning	
	Hazard statement:	H317 May cause an allergic skin reaction.	
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P308 + P313 IF exposed or concerned: Get medical advice/attention.	
	Supplemetal hazard information (EU):	-	
2.3.	Other hazards		
	No known endocrine disrupting properties. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		

SECTION 3. 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	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				
Product code:	MET-OT-X**	Date of compilation:	14 November 2022	Version:	4

	Self-protection of the first aider	-			
4.2.	Most important symptom	ns and effects, both acute and delayed			
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
4.3.	Indication of any immediate medical attention and special treatment needed				
	Treat symptomatically.				

SECTIO	CTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.			
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.			
5.2.	Special hazards arising from the su	bstance or mixture			
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.				
5.4.	Additional information				
	3 ,	ring due to increase in pressure. Remove sources of heat and nvironment 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 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 of inadequate ventilation use adequate airways protective equipment (see Section 8).					



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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:	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	Methods and materials for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay harriore			
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				
	-				

	DN 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Refer to the manufacturer's recommendations.			
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incon					
	Technical measures and storage conditions:	Keep in tightly closed and upright set contain well ventilated storage rooms at temperatures ranging from 15 to 25 °C.				
	Packaging materials:	Manufact	ufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep awa	ay from food and drink. Keep the containers osed.			
	Advices for storage equipment:	The storage must be made of hard materia must be resistant to chemicals. There must drain that directly leads into sewage system proper ventilation.				
	Further information on storage conditions:	Do not place the unused material in the storage roo 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)					



Air

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

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Trade name:				METHE	NAN	IINE, SOLUTIO	ON		
Product code:	MET-O1	Г-Х**	Date of	f compilat	tion:	14 Novembe	er 2022	Version:	4
D									
	nendations		·	-					
Industri	ai sector sp	pecific soluti	ions:	-					
SECTION 8. EXPO	SUBE CO	NTDOLS / I	DEDSON/	AL DDOTE	CTION	AI			
	paramete		PERSONA	AL PROTE	CHO	1			
o.i. control	parameter	13		Occupat	tional	exposure limit			
Substanc	е	CAS	No			term values	Biol	ogical limit values	
				ppm	ı	mg/m³		3	
-		-		-		-		-	
				1					
Substance: -									
EC No: -		CAS No:	-						
DNEL			·		"				
				Indust	trial				
Acute effect Acute ef		ute effect		Chronic eff	ect	Chronic effect			
Route of exposur	posure: local syste		systemic		local		systemic		
Oral	-		-			-	_		
Inhalation	-		-			-	_		
Dermal	-		-			-			
Critical physical p	arameters:	solubility, f	lammabil	ity, corros	ivity:	-			
				Consu	mer				
Route of exposur	Acu	ite effect	Ac	ute effect		Chronic eff	ect	Chronic effect	į
Noute of exposur	c.	local	S	systemic		local		systemic	
Oral	-		-			-	-		
Inhalation	-		-			-	-		
Dermal			-			-	-		
PNEC									
Environmental pr	otection ta	rget			NEC				
Fresh water						mation available			
Freshwater sedim	ents					mation available			
Marine water					mation available				
Marine sediments	5				No information available				
Food chain						mation available			
Microorganisms i	n sewage t	reatment				mation available			
Soil (agricultural)				No	intor	mation available	e		

No information available



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8.2.	Exposure controls					
8.2.1.	Appropriate engineering controls					
	Substance/mixture related measure to prevent exposure during identifuses:	Lise personal protective equipment 1)0 not eat drink or				
	Structural measures to prevent exposure:	No information available				
	Organisational measures to prever exposure:	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equipment:					
8.2.2.1.	Eye and face protection:	Safety glasses tested and approved under appropriate standards such as EN 166(EU).				
8.2.2.2.	Skin protection:	·				
	Hand protection:	Handle with chemical resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.				
	Other skin protection:	No specific protective equipment required.				
8.2.2.3.	Respiratory protection:	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 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				

SECTIO	SECTION 9. Physical and chemical properties							
9.1.	Information on basic pl	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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Relative vapour density: Particle characteristics:	No information available No information available	No information available No information available
density	No information available	No information available
Density and/or relative		
Vapour pressure:	No information available	No information available
Partition coefficient n- octanol/water (log value):	No information available	No information available
Solubility:	No information available	No information available
Kinematic viscosity:	No information available	No information available
pH:	No information available	No information available
Decomposition temperature:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Flash point:	No information available	No information available
Lover and upper explosion limit:	No information available	No information available
Flammability:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Melting point / freezing point:	No information available	No information available
Odour/odour threshold:	characteristic/no information available	No information available

SECTIO	N 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							
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11.1. Infori	mation on to	xicological effe	ects						
Acute	toxicity:								
Route of exposure:	М	ethod	Sp	ecies	Effec Do LD ₅₀ /L ATE _r	se .C ₅₀ or	Exposur time	e	Results
Oral:		formation ailable		-	N inform avail	nation	-		-
Dermal:		formation ailable		-	N inforn avail	nation	-		-
Inhalation:		formation ailable		-	N inform avail	nation	-		-
Spec	ific target or	gan toxicity - s			STOT-SE):			1	
		-	ific effe	ects		Targ	et organ		Note
Oral:		ormation availa				-		-	
Dermal:		rmation availa		-		-		-	
Inhalation:	No info	rmation availa	ble			-		-	
Aspir	ation hazard	1;		_					
Irrita	tion and cori	rosion							
iiiica	tion and con	Exposure t	ime	Spec	ies	Evaluati	on M	lethod	Note
Skin corrosion/	irritation:	No inform		rabbit		Lvalaati	-		mild skin irritation
Serious irritatio	on to eyes:	No inform available	nation	-	-		-		-
Sens	itization								
Skin sensitizati		information av	vailable	2.					
Respiratory sensitization:		information a							
		d to physical, c	hamia	al and to	icological	proporti	00		



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

Dermal exposur	e: No	known specific syr	nptoms. May	y cause skin irritat	ion.	
Inhalation expo	sure: No	known specific syr	nptoms.			
Eye exposure:	No	known specific syr	nptoms.			
Repea	ated dose toxici	ty (subacute, subcl	hronic, chron	nic)		
	Dose	Exposure time	Species	Method	Evaluation	n Note
Subacute oral	No information	No information available	No informatio available	No information available	No information available	No information available
Subacute dermal	No informatic available	nn No information available	No informatio available	No information available	No information available	No information available
Subacute inhalation	No informatic available	No information available	No informatio available	No information available	No information available	No information available
Subchronic oral	No informatic available	No information available	No informatio available	No information available	No information available	No information available
Subchronic dermal	No informatic available	n No information available	No informatio available	No information available	No information available	No information available
Subchronic inhalation	No informatic available	No information available	No informatio available	No information available	No information available	No information available
Chronic oral	No informatic available	No information available	No informatio available	No information available	No information available	No information available
Chronic dermal	No informatic available	No information available	No informatio available	No information available	No informatio available	No information available
Chronic inhalation	No informatic available	No information available	No informatio available	No information available	No information available	No information available
Speci	fic target organ	toxicity - repeated	d exposure (S	STOT-RE):		
		Specific ef	fects	Target o	organ	Note
Subacute oral		No information a	No information available		No information available	
Subacute derma	al	No information a	vailable	No information available		No information available



Subacute inhalation

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

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No information

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

No information available

No information available

Subacut	e inhalation	No information availa	able	No information available	available	
Subchro	onic oral	No information availa	able	No information available	No information available	
Subchro	onic dermal	No information availa	able	No information available	No information available	
Subchro	onic inhalation	No information availa	able	No information available	No information available	
Chronic	oral	No information availa	able	No information available	No information available	
Chronic	dermal	No information availa	able	No information available	No information available	
Chronic	inhalation	No information availa	able	No information available	No information available	
	CMR effects (carcino	genicity, mutagenicity,	reprodu	ctive toxicity)		
	Carcinogenicity:	Based of met. Based of met.		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.		
	Mutagenicity in-vitro					
	Genotoxicity:		met.			
	Mutagenicity in-vivo	•	Based of met.	on available data, the classific	the classification criteria are not the classification criteria are not	
	Germ cell mutagenic	ity:	Based o	on available data, the classific		
	Reproductive toxicity	<i>/</i> :	Based of met.	on available data, the classific	ation criteria are not	
	Summary of evaluproperties:	ation of the CMR	No info	ormation available		
11.2.	Information on othe	r hazards:				
11.2.1.	Endocrine disrupting	properties:				
No known endocrine disru that affect human health.						
	that affect numan nealth. Other informations:					

SECTIO	N 12. Ecological information
12.1.	Toxicity



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

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 degrad	ability				
Abiotic deg						
	radation ha	I£ 1:	Method		Evaluation	Note

	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
	lo information vailable	No information available	No information available	No information available	-

12.3. Bioaccumulative potential

Octanol-water partition coefficient (log Kow)

000	tarior water partitio	ii cocincio	one (log	itow)		
Value	Concentration	рН	°C	Method	Evaluation	Note
No information available	No information available	-	-	No information available	No information available	-



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Trade nar	me:		METHENAMINE, SOLUTION									
Product code: MET-OT-X**		Da	Date of compilation:		n: 14 N	14 November 2022			Version:	4		
	Biocon	ncentra	tion Factor	(BCF)								
Val	ue		Specie	5	Me	thod		Evaluation			Note	
No inforr available			information lable	1	No inform available	nation		informatior ilable	n -			
	Chroni	ic ecoto	ovicity						***			
,	Value		Dose	Expos		Species	5	Method	Evalu	uation	No	te
Chronic t	Chronic toxicity on fish LC ₅₀ in		No informa availabl	1	ormation in		ormation ilable	No inform availab		-		
	Chronic toxicity on EC ₅₀				ormation infor		ormation ilable	No information - available		-		
12.4.	Mobilit	ty in so	il									
	Known	or pre	dicted dist	ribution i	n environm	ental co	ompartme	ents:				
	Surface	e tensic	on:									
	Valu	ie	°C	C	oncentratio	n	Me	ethod			Note	
	No inform n availa	atio i	No information available		informatio ailable		o informa vailable	ition	-			
	Adsor	otion /	desorption									
Transpor	†	A/D c	oefficient s constant		og Kow		ooration rate	Me	thod		Note	
Soil-wate		o inforr vailable		No ir availa	nformation able	No infori availa	mation able	No inforn available	nation	_		
Water-ai		o inforr vailable		No ir availa	nformation able	No infor availa	mation able	No inforn available	nation	-		



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Trade na	me:	METHENAMINE, SOLUTION								
Product	code:	MET-OT-X**	Version:	4						
Soil-air		information ilable	No information available	No informa		No information available	-			
12.5.		of PBT and vPvB as								
			•			to be either persistent, vPvB) at levels of 0.1%		/e		
12.6.	Endocrir	ne disrupting prop	erties							
	properti	es according to RE		r Commis	sion D	ered to have endocrine elegated regulation (E gher.		r		
12.7.	Other ac	dverse effects								
	No infor	mation available								
SECTION	l 13. Dis _l	oosal consideration	ons							
13.1.	Waste tr	eatment methods								
13.1.1.	Produc	ct/Packaging dispo	osal:							
	Submi Protec	•	e legal person auth	norized by	the M	linistry of Environment	al and Nature			
13.1.2.	Waste	rodes/waste desig	anations according	to Law:						
13.1.2.		-	signations according to Law: according to official regulations.							
	2.5003	mast se maat t	erectaining to official	. regulatio						
13.1.3.	Waste	treatment – releva	nt information:							
	No inf	ormation available								
13.1.4.	Sewag	e disposal – releva	nt information:							
	Waste	must not be dispo	osed of into the sew	vage syste	em.					
13.1.5.	Other	disposal recomme	ndations:							
	Do not	t dispose of the pr ized by the minist	oduct's remains int	t dispose	of the	stem. Submit the rema packaging into the sev inistry in charge.		ctors		
13.1.6.	Releva	nt Community pro	visions:							
	-									



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



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

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

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorisation and/or res	strictions 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 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 200 on the limitation of emissions of volatile organic compounds due to the use of organi solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);		
	Information according 1 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-		
	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			

SECTION 16. Other information



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

16.1.	Indication	of changes:	-		
16.2.	Abbreviations and		ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:		Manufacturer's MSDS file.		
16.4.	Classification and procedu 1272/2008 (CLP)		re used to derive the classification for mixture according to Regulation (EC)		
Classific	ation		Classification procedure		
_			-		
16.5.	Relevant l	H statements (nu	mber and full text)		
	H: 317	7	May cause an allergic skin reaction.		
16.6.	Training advice:		-		
16.7. Further information:		formation:	"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 asse	essment

-



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

ON 1 IDENTIFICATION (OF THE SUBS	TANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
Product identifier				
Trading name:	PERIODIC A	ACID, 1 % S0	DLUTION	
Chemical name:	-			
Catalogue number:	PK1-OT-X*	k		
Relevant identified use	es of the subs	tance 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		
Details of the supplier of the safety data sheet				
Supplier:	Ві	BioGnost Ltd. Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039 msds@biognost.hr		
Address:	М			
Telephone number:	+,			
Fax no.:	+,			
e-mail of competent p	erson: <u>m</u>			
National contact: -				
Emergency telephone	number			
National Protection and Rescue Dire			112	
National Protection an	d Rescue Dir	ectorate:	112	
National Protection an Medical information:	d Rescue Dir	ectorate:	+385 1 2348 342	
	Product identifier Trading name: Chemical name: Catalogue number: Relevant identified use Uses: Uses advised against: Reason why uses advis Details of the supplier Supplier: Address: Telephone number: Fax no.: e-mail of competent p National contact:	Product identifier Trading name: PERIODIC A Chemical name: - Catalogue number: PK1-OT-X** Relevant identified uses of the subs Uses: Uses advised against: Reason why uses advised against: Details of the supplier of the safety Supplier: Bi Address: M Telephone number: + Fax no.: + e-mail of competent person: m	Product identifier Trading name: PERIODIC ACID, 1 % Solution of Chemical name: Catalogue number: PK1-OT-X** Relevant identified uses of the substance or mitor uses: Uses: For use with uses advised against: Only the interpretation of the safety data sheet. Details of the supplier of the safety data sheet. Supplier: BioGnost Ltd. Address: Medjugorska. Telephone number: +385 1 24099. Fax no.: +385 1 24040. e-mail of competent person: msds@biogn. National contact: -	

SECTIO	SECTION 2 HAZARDS INFORMATION				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification (REGULATION (EC) I	Classification (REGULATION (EC) No. 1272/2008 (CLP)			
	Hazard class and category	code: Hazard statements*:			
	Not identified as hazardous subst	ance			
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-sta	atements: see Section 16			
2.2.	Classification according to EC Dire	ective Nr. 1272/2008 CLP)			
	Product identification:	PERIODIC ACID, 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.	3. Other hazards	
	Endocrine Disrupting Propertie	es:
	No known endocrine disrupting properties Results of PBT and vPvB assessment : According to the results of its assessment, this substance is r PBT or a vPvB.	

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

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



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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.							

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES							
6.1.	Personal precautions, protective equipment	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 containmer	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	ON 7 HANDLING AN STORAGE						
7.1.	Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.					
	Measures to prevent aerosol and dust generati	on: S	ecure proper ventilation.				
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.				
	Other measures:	_	-				
7.1.2.	Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. T	horougl	nly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any inco	mpatibil	pilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers i ventilated storage rooms, and away from sources sunlight, and other incompatible substances.					
	Packaging materials:	Manu	facturer's original packaging.				
	Requirements for storage rooms and vessels:		away from food and drink. Keep the containers r closed.				
	Advices for storage equipment:	be res	orage must be made of hard material; floors must istant to chemicals. There must be no drain that ly leads into sewage system. Secure proper ation.				
	Further information on storage conditions:	and do	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).				
7.3.	Specific end use(s)						



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

Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROT					FCTION					
	meters	TROES/TER	JOITAL	LCTION						
:	Occu				upational exposure limit lues/short term values		Bio	ological limit values		
k					ppm	mg/m³			3	
					-		-	No information available		
Substance - name:										
EC No:	_		CAS No:	_						
DNEL	-									
					Inc	lustrial				
Route of Acute Acute					e		Chron	ic	Chronic	
exposure:	exposure: effect local effect sys				temic	effect local			effect systemic	
Oral					-			-		
Inhalation					-			-		
Dermal						-			-	
Critical physical parameters: solubility, flammability, cor					rosivity:		-			
Consumer										
Route of Acute Acute						Chron		Chronic		
exposure:		effe	ect local	effe	ect sys	temic		effect lo	ocal	effect systemic
Oral						-			-	
Inhalation							-			
Dermal							-			-
PNEC					DNIEG					
Environmental protection target					PNEC					
Fresh water					No information available					
Freshwater sediments					No information available					
Marine water	onte.					No information available				
Marine sedime	ents					No information available				
	ne in e-	aa - +	oatmost.			No information available				
Microorganisn		wage tr	eaument			No information available				
Soil (agricultural)					No information available					



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Trading name:	PERIODIC ACID, 1 % SOLUTION					
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Air			No information available				
8.2.	Cyposium sontrols						
8.2.1.	Exposure controls						
0.2.1.	Engineering measures	ـــا					
	Substance/mixture relate measures to prevent expoduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prexposure:	event	No information available				
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to preexposure:	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 visor.					
8.2.2.2.	Skin protection						
			stective gloves must be according to the EU Directive 2016/425/EEC and ndard EN 374.				
	Hand protection:		Glove material: nitrile rubber				
			Glove thickness: ≥0.50 mm				
			Break through time: >480 min				
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No inf	ormation available				
8.2.3.	Environmental exposure	controls					
	Substance/mixture relate measures to prevent expo		See Section 6				
	Structural measures to pr exposure:	event	Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to preexposure:	event	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		

	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
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

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	

11.1. Informatio	n on hazard classes as	defined in Rea	ulation (FC) No 12	72/2008			
Acute toxic		delined in rieg	0.011 (20) 140 12	12,2000			
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure	e time	Results	
Oral exposure:	No information available	-	LD ₅₀	-		-	
Dermal exposure:	No information available	-	LD ₅₀	-		-	
Inhalation exposure:	No information available	-	LC ₅₀	_		-	
Specific ta	rget organ toxicity – si	ngle exposure (STOT SE):				
	Specifi	c effects	Targe	t organ		Note	
Oral exposure:	No information a	available	No informati	on available	-		
Dermal exposure:	No information a	available	No informati	No information available -			
Inhalation exposure	e: No information a	available	No informati	on available	-		
Respirator	y irritation:	No info	rmation available				
Irritation a	nd corrosion						
	Exposure time	Species	Evaluation	Method		Note	
Skin irritation:	-	rabbit	-	_	-		
Eye irritation:	-	rabbit	-	-	-		
		·					
Sensitization	on						
Dermal exposure:	No information avail	able					
Inhalation exposure:	tion No information available						
Symptoms	related to the physica	l, chemical and	toxicological chara	acteristics			
Oral exposure:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.						
Dermal exposure:		•	ure, resorption effo ingling sensation o		kely. Lor	ng-term exposure	



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Trading name:	PERIODIC ACID, 1 % SOLUTION					
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innalation expositre.			large amount eezing, heada	•		adequately vent	ilated perim	eter may cause
Eye exposure:		Direct eye co sensation.	ontact may cause slight to moderate irritation, lacrimation and burning					
Repeate	ed dos	e toxicity (sub	acute, subchro	onic, chroni	ic)			
<u> </u>		Dose	Exposure time	Species		Method	Evaluation	n Note
Subacute oral	No avail	information able	No information available	No informati available		No information available	No information available	on -
Subacute dermal	No avail	information able	No information available	No informati available	-	No information available	No information available	on -
Subacute inhalation	No avail	information able	No information available	No informati available		No information available	No information available	on -
Subchronic oral	No avail	information able	No information available	No informati available	-	No information available	No information available	on -
Subchronic dermal	No avail	information able	No information available	No informati available		No information available	No information available	on -
Subchronic inhalation	No avail	information able	No information available	No informati available		No information available	No information available	on -
Chronic oral	No avail	information able	No information available	No informati available		No information available	No information available	on -
Chronic dermal	No avail	information able	No information available	No informati available		No information available	No information available	on -
Chronic inhalation			No information available	No informati available	_	No information available	No informatio available	on -
Specific	target	organ tovicit	v – reposted o	vnosuro (C	TOT P)E).		
Specific target organ toxicity – repeated			pecific effects	vhosnie (2	101 6	Target orga	 an	Note
		ation available		No i	No information available		-	
Subacute dermal			ation available		No information available		-	
Subacute inhalat	ion	No informa	ation available		No i	nformation avai	lable	-



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Trading name:	PERIODIC ACID, 1 % SOLUTION				
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Subchro	nronic oral No information		n available	No information available	-			
Subchro	onic dermal No information		n available	No information available	-			
Subchro	onic inhalation	No information	n available	No information available	-			
Chronic	oral	No information	n available	No information available	-			
Chronic	dermal	No information	n available	No information available	-			
Chronic	inhalation	No information	n available	No information available	-			
	:							
	CMR effects (c	arcinogenicity, m	nutagenicity, repr	oductive toxicity)				
	Carcinogenicit	y:	Current studies	on test animals did not indicate ca	rcinogenic effects.			
	Mutagenicity i	n-vitro:	Current in vitr	o tests did not indicate mutageni	c effects.			
	Genotoxicity:		No information available					
	Mutagenicity i	n-vivo:	Current <i>in vivo</i> tests did not indicate mutagenic effects.					
	Germ cell muta	agenicity:	No information available					
	Reproductive t	toxicity:	No toxicity on reproductive organs was determined in reproductive organs.					
	Summary of ev	valuation of the (CMR properties:	-				
	Dammer, C. C. L. Laddich. C. die Chinx properties.							
11.2	Information or	n other hazards:						
11.2.1.	Endocrine disr	upting propertie	s:					
	contain complave endocring to Commission D 2017/2100 or	nce/mixture do ponents consid ne disrupting p REACH Article Delegated regula Commission Re 5 at levels of	roperties 57(f) or tion (EU) egulation					
11.2.2.	Other informa	tions:						

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 9	% SOLUTION	
Product code:	PK1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

12.2. Persistence and degradability

Abiotic degradation

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

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

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



Trading name:

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PERIODIC ACID, 1 % SOLUTION

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Produc	t coc	le:	PK1-C	DT-X**		Date	of co	mpilatio	on: 2	21 Dec	2022	Versi	on: 4
-		No availa	inform able	ation -			No info	ormation le		o inform ailable	ation	-	
	Bioc	oncen	tration 1	factor (BCF)									
V	'alue			Species		N	1ethoc	l	E	valuatio	n		Note
No info availabl		on	No availab	inform ble	ation	No info availabl		on	No inta	formatic ble	on	No infor	
	Chro	onic ec	otoxicit	у									
	Va	lue		Dose		osure ime	Spe	ecies	Met	thod	Eva	aluation	Note
Chronic	toxic	ity on	fish	LC ₅₀	No infor availa	mation able	No inforr availa	mation able	No inform availa		No inf	ormation ole	-
Chronic crustace		-)	EC ₅₀	No infor availa	mation able	No inforr availa	mation able	No inform availa		No information - available		-
12.4.	Mok	oility in	soil										
	Kno	wn or	predicte	ed distributi	on in e	environm	ental c	ompart	ments:				
	No i	nform	ation av	ailable									
	Surf	ace te	nsion:										
	\	/alue		°C	C	oncentra	tion		Meth	od		N	ote
		rmatio lable		ormation ailable		informat iilable	tion	No info	ormatic ole	on	-		
	1		<u> </u>										
	Ads	orptio	n / deso	rption									
Transpo	ort		/D coef enry's co		lc	og Kow	Ev	/aporatio	on rate	Ŋ	Method		Note
Soil-wa	ter	No availa		formation	No ir availa	nformatic able		o inform ailable	nation	No in availa	formati Ible	on -	



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

Product	code. PKT-OT-X***	Date 0	r compliation. 2	21 Dec 2022	version. 4
	NI-	N1 - :- £ 1:	N1 : . f	N1- : £	
Water-air	No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB asse	essment			
	The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at	57(f) or Commissio	n Delegated regula		
12.6.	Endocrine disrupting proper	ties			
	The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at	57(f) or Commissio	n Delegated regula		
12.7.	Other adverse effects				
	No information available				
SECTION	13 DISPOSAL CONSIDERA	ATIONS			
13.1.	Waste treatment methods				
10.1.1					
13.1.1.	Product/Packaging dispos		oriena di la cada a Nationia		Larad Niatorra
	Submit for disposal to the Protection.	iegai person autiic	onzed by the Minist	ry of Environmenta	i and ivalure
13.1.2.	Waste codes/waste design	ations according to	o Law:		
	No information available				_
13.1.3.	Waste treatment – relevan	t information:			
	No information available				
13.1.4.	Sewage disposal – relevan	t information:			
	Waste must not be dispos		ige system.		
13.1.5.	Other disposal recommen	dations:			
13.1.3.	Other disposal recommen	audons.			



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Trading name:		PERIODIC ACID, 1 %	6 SOLUTION	
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	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors by in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge. Do not dispose of in places where					
13.1.6.	Relevant Community provisions:						
	-						
SECTIO	N 14 TRANSPORT INFORM	MATION					
	Transporting/shipment by	road (ADR)					
UN num		Not subject to transport regulations.					
UN prop	per shipping name:						
	rt hazard class(es):	-					
Packing		-					
	mentally hazardous:	-					
	precautions for user:	-					
	Transporting/shipment by	rail (RID)					
UN number:		Not subject to transport regulations.					
UN prop	per shipping name:						
	rt hazard class(es):	-					
Packing		-					
	mentally hazardous:	-					
Special	precautions for user:	-					
	Inland waterway transport	(ADN)					
UN num	ıber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environi	mentally hazardous:	-					
Special	precautions for user:	-					
	Transporting/shipment by	sea (IMDG)					
UN num	nber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environi	mentally hazardous:	-					
Special	orecautions for user:						



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

Transporting/shipment by	air (ICAU-11/IA1A-DGK)
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: -	

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



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

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

Λ	N	N	П	ᆮ	Y	
$\overline{}$		н	ч	ᆫ	Л	

Exposure scenario resulting to Chemical safety assessment

-



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

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

1.1	Product identifier			and of the company/undertaking		
	Trading name:	SILVER NITE	RATE SOLI	JTION, STABILIZED		
	Chemical name:	_				
	Catalogue number:	SNS-OT-X*				
1.2	Relevant identified us	es of the subst	tance or m	nixture and uses advised against		
	Uses:		For use	with Grocott kit, stabilized and P.A.S.M. /Jones kit, stabilized.		
	Uses advised against:		Only the	identified uses are advised.		
	Reason why uses advi	advised against: r		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 +385 1 2409997			
	Telephone number:					
	Telefax.:		+385 1 2404039 <u>msds@biognost.hr</u>			
	e-mail of competent p	person:				
	National contact:	National contact: -				
1.4	Emergency telephone	Emergency telephone number				
	National Protection a	National Protection and Rescue Dire		112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance	Classification of the substance or mixture				
2.1.1	Classification according to Reg	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and catego	ory code:	Hazard statements*:			
	Aquatic Chronic 3		H412			
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:	SILVER NITRATE	SOLUTION, STABILIZED			
	Identification number: -					
	Authorization number: -					
	Hazard pictograms:	-				



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

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

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

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

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



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Trading name:	SI	SILVER NITRATE SOLUTION, STABILIZED					
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	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.			
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.			
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.			
	Following ingestion:	Danger of gastric perforattion.			
4.3	Indication of any immediate medical attention and special treatment needed				
	-				

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

SECTIO	ON 6. Accidental release measur	res				
6.1	Personal precautions, protective	e equipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:	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:	SI	SILVER NITRATE SOLUTION, STABILIZED					
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6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	Do not use incompatible materials (see Section 10).			
6.4	Reference to other sections				
	See Section 7 for information on safe handling.				
	See Section 8 for information on personal protection equipment.				
	See Section 13 for disposal in	formation.			

SECTIO	ON 7. Handling and storage						
7.1	Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat.				
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.				
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.				
	Other measures:		-				
7.1.2.	Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.						
7.2	Conditions for safe storage, including any incon	npatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers at temperatures ranging from +2 to +8 °C.					
	Packaging materials:	Manufactu containers	urer's original packaging. Avoid metal				
	Requirements for storage rooms and vessels:	Keep away	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 dra that directly leads into sewage system. Secure proper ventilation.					
	Further information on storage conditions:	and do no	ace the unused material in the storage room of use empty containers for storing other. Do not store with incompatible materials on 10).				



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

iliuustilai :	industrial sector specific solutions.									
SECTION 8. Expos	ure contro	ols/perso	nal pro	otection						
8.1 Control pa										
				ccupational exposure limit values/short term values			Biological limit values			
					pp	m	n	ng/m³		
Silver (as Ag)			-		-			0.01		-
Substance name:	-									
EC No:	EC No: - CAS No: -			-						
DNEL										
				In	ndus	trial				
Route of exposure:	Acu effect		Acute effect systemic		ic	Chronic effect local			Chronic effect systemic	
Oral	-		-	<u> </u>		-				-
Inhalation	-		-			-			-	
Dermal	-		-			-			-	
Critical physical par	rameters: s	olubility,	flamma	ability, co	orros	sivity:		-		
				Co	onsi	umer				
Route of exposure:	Acı effect			Acute ct system	ic	Chronic ic effect local			Chronic effect systemic	
Oral	-		-			-				-
Inhalation	-		-		-			-		
Dermal	-		-		-				-	
PNEC										
Environmental prot	ection tar	get			PNEC					
Fresh water					no information available					

Environmental protection target	PNEC
Fresh water	no information available
Freshwater sediments	no information available
Marine water	no information available
Marine sediments	no information available
Food chain	no information available
Microorganisms in sewage treatment	no information available
Soil (agricultural)	no information available



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Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to preven exposure:	it	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
	Hand protection:	Protect	tive nitrile gloves, >0.11 mm thick (EN 374).		
	I ITHAT CHIN PROTACTION:	Wear antistatic clothing made of natural fibers (such as cotton with long sleeves (EN 340) and shoes that cover the entire foo			
8.2.2.3.	Respiratory protection:		quired under normal conditions of use. Use suitable tory protective device when high concentrations are t.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ection 6		
	Structural measures to prevent exposure:	Use mo	odern equipment.		
	_	Adapt workpl	t the work process to the required working conditions of the blace.		
	Technical measures to prevent exposure:	See Section 6			

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties



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Trading name:	SI	VER 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
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available
Other information		

SECTIO	SECTION 10. Stability and reactivity				
10.1	Reactivity:	See subsections 10.3 through 10.5.			
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (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	1 Information on hazard classes as defined in Regulation (EC) No 1272/2008		
	Acute toxicity:		



Inhalation:

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

available

available

No information

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Trading name:	SILVER NITRATE SOLUTION, STABILIZED							
Product code:	SNS-OT-X*	r* Da	te of compilation:	21 Dec 2022	Version: 4			
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results			
Oral:	-	No information available	-	No information available	-			
Dermal:	-	No information	-	No information	-			

Specific target organ toxicity – single exposure (STOT SE):					
Specific effects Target organ Note					
Oral:	No information available	No information available	-		
Dermal:	No information available	No information available	-		
Inhalation:	No information available	No information available	-		

Aspiration hazard:	No information available.
--------------------	---------------------------

available

available

No information

Irritation and corrosion						
	Exposure time	Species	Evaluation	Method	Note	
Skin corrosion/irritation:	-	-	-	–	-	
Serious eye damage/irritation	-	-	-	-	-	

Sensitization	
Skin sensitization:	-
Respiratory sensitization:	-

Symptoms related to the physical, chemical and toxicological characteristics			
Oral exposure: No information available.			
Dermal exposure:	No information available.		
Inhalation exposure:	No information available.		
Eye exposure:	No information available.		

Repeated dose toxicity (subacute, subchronic, chronic)					
Dose	Exposure time	Species	Method	Evaluation	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						
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	Carcinogenicity:	No information available.
	Mutagenicity in vitro:	No information available.
	Genotoxicity:	No information available.
	Mutagenicity in vivo:	No information available.
	Germ cell mutagenicity:	No information available.
	Reproductive toxicity:	No information available.
	Summary of evaluation of the CMR properties:	No information available.
11.2.	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	No known endocrine disrupting properties that affect human health.	
11.2.2.	Other informations:	

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

					•	i .			i i
Crustacea:		EC ₅₀	48 hours		No information available	No information available	No inform availat		-
Algae/aquatic	Algae/aquatic plants IC ₅₀		72 hours		No information i	No information available	No inform availat		-
Other organism	ns	-	-	-		-	-		-
12.2 Persis	tonco o	nd dograd	ability						
	c degra	nd degrad	ability						
7101011	-	gradation	half-lives		Method	Evaluatio	on		Note
Marine water		nformation			information lable	No information		-	
Fresh water	resh water No information available			information lable	No information	on	-		
Air	No information available		No information available		No information available		-		
Soil	No information available		No information available		No information - available		-		
Biode	gradatio	on							
% Degradati	on	Time	(days)		Method	Evaluatio	on		Note
No information available		No available	nformation		information ilable	No information	on	No in	formation ble
12.3 Bioacc	cumulat	tive potent	ial						
			coefficient (1 1 1 1 1 1	
Value		entration	рН	°C	Method		uation		Note
	•		-	-	-	-		-	
Bioco	ncentra	tion factor	(BCF)						
Value		Spec			Method	Evaluat	ion		Note
No information			nformation		information lable	No informat	ion	-	



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Tradin	g nam	ie:		SILVER N	IITR/	ATE SO	LUTIO	N, STA	BILIZED		
Produc	ct cod	e: SN	NS-OT-X**	Date	of co	mpilati	on:	21 Dec	c 2022 Version		
	Chro	nic ecoto	xicity	1			1	1		1	
	Valu	ue	Dose	Exposure time	Spe	ecies	Met	hod	Evaluatio	on N	lote
Chronic	c toxici	ty on fish	LC ₅₀	No information available	No inforr availa	mation ible	No inform availal		No informatic available	ın -	
Chronic crustac		-	EC ₅₀	No information available	No inforr availa	mation ible	No inform availal		No informatic available	n -	
12.4	Mohi	ility in soi	I								
14,7	:			on in environme	ental c	compart	ments:				
			n available			.oparc					
	-	ice tensio									
		alue	°C	Concentrat	ion		Meth	od		Note	
	No infor availa	mation able	No information available	No informati available	ion	No inf availab	ormatio ole	n	-		
	Adso	orption / c	desorption								
Transpo	ort	-	coefficient 's constant	log Kow	E۱	/aporati	on rate	N	Method	No	ote
Soil-wa	tor	No available	information	No informatio available		o inform ailable	nation	No in availa	formation ble	-	
Water-	air	No available	information	No informatio available		o inform ailable	nation	No in availa	formation ble	-	
Soil-air		No available	information	No information No infor available available					formation ble	-	
12.5	Resu	lts of PBT	and vPvB asses	ssment							
				ins no compone	ents co	onsidere	ed to be	either p	persistent, b	pioaccumulat	tive an
				and very bioacc							



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12.6.	Endocrine disrupting propertie	es
	The substance/mixture does no	ot contain components considered to have endocrine disrupting properties (f) or Commission Delegated regulation (EU) 2017/2100 or Commission
	3 ()	3
12.7.	Other adverse effects	
	No information available	
	ON 13. Disposal considerations	
13.1	Waste treatment methods	
13.1.1.	Product/Packaging disposal:	
		gal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste designat	ions according to Law:
		dual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevant i	nformation:
	No information available	
13.1.4.	Sewage disposal – relevant i	nformation:
	Waste must not be disposed	of into the sewage system.
13.1.5.	Other disposal recommenda	tions:
	authorized by the ministry in	ct's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. Submit ors authorized by the ministry in charge.
13.1.6.	Relevant Community provision	ons:
	-	
SECTIO	Transporting (chipment by rea	
LINI mun	Transporting/shipment by road	
UN nur	nper: oper shipping name:	Not subject to transport regulations
······	ort hazard class(es):	
······································	g group:	
rackiii	y group.	



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For the growth that have not a second	
Environmentally hazardous:	
Special precautions for user:	-
Transporting/shipment by rail (R	
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 (IN	MDG)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (ICA	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	



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

SECTION 16. Other information	
16.1 Indication of changes:	-



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16.2	Abbreviations and acronyms	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative	
16.3.	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)		
Classif	ication	Classification procedure	
		-	
16.5.	Relevant H statements (num	ber and full text)	
	272	May intensify fire; oxidiser.	
	314	Causes severe skin burns and eye damage.	
	H: 400	Very toxic to aquatic life.	
	410	Very toxic to aquatic life with long lasting effects.	
	412	Harmful to aquatic life with long lasting effects	
16.6.	Training advice:	-	
		** "X" in the product code marks different volumes (different packagings of the product)	
16.7.	Further information:	We are not responsible for consequences in case of failure to comply wi instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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

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

SECTION	SECTION 2. Hazards identification			
2.1.	Classification of the substance or mixture			
2.1.1.	Classification according to Re	Classification according to Regulation (EC) No 1272/2008 (CLP)		
	Hazard class and cate	egory code:	Hazard statements*:	
	Not identified as hazardous	substance.	-	
2.1.2.	Additional information			
	-			
*For fu	ıll text of Hazard- and EU Hazar	rd-statements: see :	Section 16	
2.2.	Label elements			
	Product identification:	SODIUM TH	OSULFATE, 2% SOLUTION	
	Identification number:	-		
	Authorization no.:	-		
	Hazard pictograms:	-		



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

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

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

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



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

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

SECTIO	ECTION 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 Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. o fire with water spray or vapor.					
5.4.	Additional information						
	Remove sources of heat and ignition Do not contaminate the environm						

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



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

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

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



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SECTION 8. Exposure controls/personal protection									
8.1. Control para									
Substance		CAS 1			cupational exposure limit alues/short term values		Biological limit values		
					ppm	mg/m³			
-		-			-	-	No information available		
Substance - name:									
EC No: -		CAS No:	-						
DNEL									
				Inc	dustrial				
Route of	<i> </i>	Acute		Acut	е	Chronic	Chronic		
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic		
Oral	-		-			-	-		
Inhalation	-		-			-	-		
Dermal	-		-			-	-		
Critical physical parar	meters: s	solubility, fla	ımmabilit	ty, cor	rosivity:	-			
				Co	nsumer				
Route of	/	Acute		Acut	e	Chronic	Chronic		
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic		
Oral	-		-			-	-		
Inhalation	-		-			-	-		
Dermal	-		-			-	-		
PNEC									
Environmental protect	ction tar	get			PNEC				
Fresh water					No information available				
Freshwater sediments	S				No information available				
Marine water				No information available					
Marine sediments			No information available						
Food chain					No information available				
Microorganisms in sewage treatment					No information available				
Soil (agricultural)	Soil (agricultural)				No information available				
Air					No information available				



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

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



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

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

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



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Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
nhalation No information - xposure: available		LC ₅₀	-	-	
Specific tar	get organ toxicity – s	single exposure	e (STOT SE):		
<u> </u>	Specific		Target organ		Note
Oral exposure:	No information		No information available	-	
Dermal exposure:	No information	available	No information available	-	
Inhalation exposure	: No information	available	No information available	-	
Irritation ar	nd corrosion				
		<u> </u>	Evaluation	Meth od	Note
	Exposure time	Species			
Skin irritation:	- Exposure time	Species -	-		
Skin irritation: Eye irritation:	•	•			
		-	-		
Eye irritation:		-	-		
Eye irritation: Sensitizatio	- - on	- - ilable	-		
Sensitization Dermal exposure: Inhalation exposure:	n No information ava	- ilable	-		
Sensitization Dermal exposure: Inhalation exposure: Symptoms	n No information ava	ilable ilable	-		
Sensitization Dermal exposure: Inhalation exposure:	No information ava	ilable ilable al, chemical an	-		
Sensitization: Dermal exposure: Inhalation exposure: Symptoms Oral exposure:	No information ava	ilable ilable al, chemical an	-		



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

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



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Chronic	inhalation	No informat	ion available	No information available	-	
	CMR effects (carcinogenicity	, mutagenicity, r	eproductive toxicity)		
	Carcinogenicity: Based or			on available data, the classification criteria are not met.		
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criteria	are not met.	
	Genotoxicity:		Based on av	ailable data, the classification criteria	are not met.	
	Mutagenicity	in-vivo:	Based on av	ailable data, the classification criteria	are not met.	
	Germ cell mut	agenicity:	Based on av	railable data, the classification criteria	are not met.	
	Reproductive	toxicity:	Based on av	ailable data, the classification criteria	are not met.	
11.2	Information o	n other hazard	s:			
11.2		n other hazard rupting proper				
	The substar contain com have endocri according to Commission I 2017/2100 or		does not sidered to properties le 57(f) or ulation (EU) Regulation			
11.2.2.	Other informa	ntions:				
	-					

SECTION 12. Ecological information

12.1. Toxicity

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



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

12.2. Persistence and degradability

Abiotic degradation

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

Biodegradation

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

12.3. Bioaccumulative potential

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

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

Bioconcentration factor (BCF)



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	Value	alue Species		Me	ethod	Evaluation	Note		
No information available		No availa	informati able	on No inform available			No information available		ailable
	Chronic	ecotoxic	ity						
	Value		Dose	Exposure time	Species	Method	Evaluation		Note
Chroni	c toxicity o	n fish	LC ₅₀	No information available	No information available	No information available	No information available		-
	c toxicity o		EC ₅₀	No information available	No information available	No information available	No information available		-
12.4.	Mobility	in soil							
		111 \(\cdot \)							
12.4.	-		tad distributi	on in environm	ental compart	ments:			
12.4.	Known c	or predic		on in environm	ental compart	ments:			
12.4.	Known o	or predic		on in environm	ental compart	ments:			
12.4.	Known c	or predic mation a tension:		on in environm		ments:		N	ote
12.4.	Known of No infor	mation attension: B N Sion in	available		tion		able	N	ote
12.4.	Known of No informat available	mation attension: e N ion in a	°C Io Iformation vailable	Concentra No informat	tion	Method	able		ote
Transp	No information available	mation attension: e ion / des A/D coe	°C lo nformation vailable sorption	Concentra No informat	tion cion No inf	Method			
	No informat available Adsorption No	mation attension: e Note ion in attension A/D coefficients Henry's of	°C Io Information vailable sorption efficient	Concentra No informat available	tion No inf	Method Formation availa		- Method ormation	ote Note
Transp	No informat available ort No available No av	in prediction attension: E Sion / des A/D coe Henry's of ilable	°C lo nformation vailable sorption efficient constant	Concentra No informat available log Kow No information	tion No inf Evapo No inform available	Method Formation availation rate nation	No info	- Method ormation ole ormation	Note



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



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

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



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Special precautions for user:		-
Further information:	-	

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

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



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

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Exposure scenario resulting to Chemical safety assessment