

# P.A.S. KIT

The kit contains:

BioSchiff reagent HCL reagent, P.A.S. Hematoxylin ML Periodic acid, 0.8% solution Sodium metabisulphite, solution



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Trading name:	BIOSCHIFF REAGENT					
Product code:	BS-OT-X**	Date of compilation:	17 Jan 2024	Version:	5	

<b>SECT</b>	Product identifier	the substance	e/mixture	e and of the company/undertaking	
•••	Trading name:	BIOSCHIFF	REAGENT		
	Chemical name:	-			
	Catalogue number:	BS-OT-X**			
1.2		es of the subs	tance or n	nixture and uses advised against	
	Uses:		For dete	cting aldehydes and mucous substances.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTION 2. Hazards identification					
2.1	Classification of the substance	r mixture			
2.1.1	Classification according to Reg	ation (EC) No 1272/2008 (CLP)			
	Hazard class and catego	y code: Hazard stat	ements*:		
	-	EUH031			
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	atements: see SECTION 16			
2.2	Label elements				
	Product identification:	BIOSCHIFF REAGENT			
	Identification number:	-			
	Authorization number: -				
	Hazard pictograms:	-			



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	Signal word:	-
	Hazard statements:	EUH031 Contact with acids liberates toxic gas.
	Precautionary statements:	P281 Use personal protective equipment as required.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	erties:
	No known endocrine disrupt	ing properties
	<b>Results of PBT and vPvB as</b> PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

SECTION 3. 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)		
7681-57-4/ 231-673-0/ 016-063-00-2	01-2119531326-45- XXXX	1 – 3 %	sodium metabisulfite	Acute Tox. 4; H302 Eye Dam. 1; H318 EUH031		
7647-01-0/ 231-595-7/ 017-002-01-X	01-2119484862-27- XXXX	0.7 – 1 %	hydrochloric acid, 36.5%	Skin Corr. 1B; H314 Acute Tox. 3; H331		
569-61-9/ 209-321-2/ 611-031-00-X	-	< 0.1 %	4,4'-(4-iminocyclohexa-2,5- dienylidenemethylene) dianiline hydrochloride; C.I. Basic Red 9	Carc. 1B; H350		

SECT	SECTION 4. First aid measures			
4.1	Description of first aid measure	25		
	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.		



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	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 effect	ts, both acute and delayed
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.
4.3	Indication of any immediate medical	attention and special treatment needed
	-	

SECTION 5. Firefighting measures				
5.1	Extinguishing media			
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam		
	Unsuitable extinguishing media:	Water jet		
5.2	Special hazards arising from the sub	stance or mixture		
	Hazardous combustion products:	Sulfur oxides.		
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 environmen	t 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.		



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6.1.2.	For emergency responders:						
	Use protective equipment; in (see Section 8).	quipment; in case of inadequate ventilation use adequate airways protective equipment					
6.2	Environmental precautions:						
	Do not dispose of in sewage, Protection and Rescue Direct	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.					
6.3	Methods and material for cor	ntainment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.					
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable contair Store the substance in well ventilated storage rooms until disposal. Sub for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, we 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 protective equipment.					
	See Section 13 for disposal in	formation.					

SECTIO	DN 7. Handling and storage						
7.1	Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire:		Use in well ventilated storage rooms.				
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.				
	Measures to protect the environment:	nment: Prevent spilling into the se and waterways.					
	Other measures:		-				
7.1.2.	Advice on general occupational hygiene:	general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Th	he workspace. Thoroughly wash hands after work and before eating.					
7.2	Conditions for safe storage, including any incom	patibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in well ventilated storage rooms at temperatures rangi from 15 to 25 °C.					
	Packaging materials:	Manufactu containers.	rer's original packaging. Avoid metal				
	Requirements for storage rooms and vessels:	Keep away tightly clos	from food and drink. Keep the containers ed.				



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

SECTION 8. Exp	osure contr	ols/perso	onal protec	tion				
8.1 Control	parameters							
Substar						exposure limit term values	Bic	blogical limit values
				ppm		mg/m³		
sodium metabis	ulfite	7681-57	7-4	-/-		5/-	No i	nformation available
	1							
Substance name	: -	-						
EC No:	-	CAS No	): -					
DNEL								
				Industri	al			
Route of exposure:	Act			ute ystemic		Chronic effect local		Chronic effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal					-			-
Critical physical	parameters:	solubility,	flammabili	ty, corrosivit	ty:	-		
				Consum	er	·		
Route of	Ac	ute	Ac	ute		Chronic		Chronic
exposure:	effect	t local	effect s	ystemic		effect local		effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal	-		-		-			-
PNEC								·
Environmental p	rotection tar	get		PNE	С			



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	Structural measures to prevent exposure:	Use modern equipment.					
	Substance/mixture related measures to prevent exposure:	See Se	ction 6				
8.2.3.	Environmental exposure controls						
8.2.2.4.	Thermal hazards:	No info	No information available				
8.2.2.3.	Respiratory protection:	combii	e mask (EN 136) or half mask (EN 140) equipped with a ned "A1 + Form" filter (EN 143) used when concentration exceed GVI.				
	Other skin protection:		ntistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 340) and shoes that cover the entire foot.				
	Hand protection:		tive nitrile gloves, 0.11 mm thick (EN 374).				
8.2.2.2.	Skin protection						
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.				
8.2.2.	Personal protection equipment						
	Technical measures to prevent ex	xposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.				
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.				
	Structural measures to prevent exposure:	In accordance with Section 7.					
Substance/mixture related measures prevent exposure during identified u			Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
8.2.1.	Appropriate engineering controls	S					
8.2	Exposure controls						
Air			No information available				
Soil (agric	anisms in sewage treatment		No information available				
Food chai			No information available No information available				
Marine se			No information available				
Marine wa			No information available				
Freshwate	er sediments		No information available				
Fresh wat	er		No information available				



exposure:

Technical measures to prevent

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Date of compliation. In Jan 2024 Versit	on: 5	Versio	17 Jan 2024	Date of compilation:	BS-OT-X**	ode:	Product c
Organisational measures to Adapt the work process to the required working condit prevent exposure: workplace.	ions of the	vorking condition	to the required w				

See Section 6

ValueMethodPhysical state:liquidNo information availableColour:colourlessNo information availableOdour/odour threshold:sharp/no information availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availableFlish point:No information availableNo information availablePH:<2No information availableSolubility:No information availableNo information availablePartition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableNo information availableDensity and/or relative densityNo information availableNo information availableNo information availableParticle characteristics:No information availableNo information availableNo information available	Inf	ormation on basic physical and	chemical properties		
Colour:colourlessNo information availableOdour/odour threshold:sharp/no information availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2No information availableSolubility:No information availableNo information availablePartition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableNo information availableRelative vapour density:No information availableNo information availableNo information available			Value	Method	
Odour/odour threshold:sharp/no information availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Ph	ysical state:	liquid	No information available	
Odour/odour threshold:availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Co	lour:	colourless	No information available	
Boiling point or initial boiling point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Oc	lour/odour threshold:	· ·	No information available	
point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Me	elting point / freezing point:	No information available	No information available	
Lover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2		5.	No information available	No information available	
Flash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Fla	immability:	No information available	No information available	
Auto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Lo	ver and upper explosion limit:	No information available	No information available	
Decomposition temperature:No information availableNo information availablepH:<2	Fla	ish point:	No information available	No information available	
pH:<2No information availableKinematic viscosity:No information availableNo information availableSolubility:No information availableNo information availablePartition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	Au	to-ignition temperature:	No information available	No information available	
Kinematic viscosity:No information availableNo information availableSolubility:No information availableNo information availablePartition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	De	composition temperature:	No information available	No information available	
Solubility:No information availableNo information availablePartition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	p⊦	:	<2	No information available	
Partition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	Kir	nematic viscosity:	No information available	No information available	
octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	So	lubility:	No information available	No information available	
Density and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	-		No information available	No information available	
Relative vapour density:     No information available     No information available	Va	pour pressure:	No information available	No information available	
	De	ensity and/or relative density	No information available	No information available	
Particle characteristics: No information available No information available	Re	lative vapour density:	No information available	No information available	
	Pa	rticle characteristics:	No information available	No information available	

SECTIO	SECTION 10. Stability and reactivity						
10.1	Reactivity:	No information available					
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					



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10.4	Condition	a ta avaidu		No information ava	ilabla		
10.4	0.4 Conditions to avoid:		No information available				
10.5	Incompat	ble materials:		Strong oxidants (ac	ds).		
10.6	Hazardou	s decomposition prod	lucts:	Sulfur dioxide, sodiu	um oxide.		

11.1 Info	prmation on t	toxicological effects					
	ite toxicity:						
Route of exposure:	Methoc	l Species		e LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Expc	osure time	Results
Oral:	OECD Te Guidelin 401	motaniculinh	ite)	-			1.540 mg/kg (sodium metabisulphi 5.000 mg/kg (C.I. Basic Red
Dermal:	OECD Te Guidelin 402			rmation lable	-		>2.000 mg/k (sodium metabisulphi
Inhalation:	OECD Te Guidelin 403			rmation lable	4h		>5.5 mg/l (sodium metabisulphi
Spe	ecific target c	organ toxicity – single	e exposure (S	STOT SE):			
•	<u> </u>	Specific effects			arget organ		Note
Oral:	No inform	ation available		No information available -			-
Dermal:	No inform	ation available		No inform	-		
Inhalation:	No inform	ation available		No information available -			
Asp	piration hazaı	rd:	No inform	mation avail	able.		
Irrit	ation and co	rrosion					
		Exposure time	Sp	ecies	Evaluati on	Method	Note
Skin corrosion/irr	itation:	-	-		-	-	-
Serious eye damage/irrit	ation	-	-		-	-	-



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Respiratory sensi	itization:	No inf	ormation avail	able			
Sympton	ms relate	ed to the ph	ysical, chemic	al and toxicolog	ical characterist	ics	
Oral exposure:		, .			ipanied by abdo ng and diarrhea.	minal pains and cra	mps; highei
Dermal exposure	e: M	lay cause sk	in irritation.				
Inhalation exposi	ure: e>	posure and		y sensitive perso	-	oncentration, prolon sm may occur, as we	-
Eye exposure:	Μ	lay cause ey	e irritation.				
Repeate	ed dose t	oxicity (sub	acute, subchro	onic, chronic)			
i	D	lose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No in <sup>.</sup> availab	formation le	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 in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Subchronic oral	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Subchronic dermal	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Chronic oral	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Chronic dermal	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Chronic inhalation	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-



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		Specific effects	5	Target organ	Note	
Subacu	te oral	No information available		No information available	-	
Subacu	te dermal	No information available		No information available	-	
Subacu	te inhalation	No information available		No information available	-	
Subchro	onic oral	No information available		No information available	-	
Subchr	onic dermal	No information available		No information available	-	
Subchronic inhalation No information available			No information available	-		
Chronic	Chronic oral No information available			No information available	-	
Chronic dermal No information available			No information available	-		
Chronic	Chronic inhalation No information available			No information available	-	
	CMR effects (c	arcinogenicity; mutagenicity; re	eproductive toxi	city)		
	Carcinogenicit		No informatio	-		
	Mutagenicity <i>i</i>	n vitro:	No information available			
	Genotoxicity:		No information available			
	Mutagenicity i	n vivo:	No information available			
	Germ cell mut	agenicity:	No information available			
	Reproductive 1	toxicity:	No informatio	n available		
	Summary of properties:	evaluation of the CMR	No informatio	n available		
11.2	Information or	n other hazards:				
11.2.1	Endocrine disr	upting properties:				
	No known en that affect hur	docrine disrupting properties				



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11.2.2 Other informations: -

SECTION 12. Ec	ologio	cal informat	ion				
12.1 Toxicity	,						
Acute (short-ter toxicity	m)	Dose	Exposure time	Species	Method	Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	Golden orfe (sodium metabisulphite) Mosquito fish (hydrochloric acid)	No information available	316 mg/l (sodium metabisulphite) 282 mg/l (hydrochloric acid)	-
Crustacea:		EC <sub>50</sub>	48 hours	Daphnia magna (sodium metabisulphite)	No information available	89 mg/l (sodium metabisulphite)	-
Algae/aquatic plants IC <sub>50</sub>		4 days	Green algae (sodium metabisulphite)	No information available	43.8 mg/l (sodium metabisulphite)	-	
Other organisms	5	-	-	-	-	-	-
Chronic (long-te toxicity	erm)	Dose	Exposure time	Species	Method	Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants		IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	S	-	-	-	-	-	-
		nd degradab	oility				
Abiotic							
	De	gradation ha	alf-lives	Method	Evaluatior		ote
Marine water	No in	formation a	vailable	No information available	No information available	on -	



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Product code:	BS-OT->	<b>X</b> **	Da	te of compilatior	n: 17 Jan 2	2024	Version:	5
Fresh water	No informat	ion available	No in availa	formation	No informati available	on _		
Air	No informat	ion available	No in availa	formation Ible	No informati available	on _		
Soil	No informat	ion available	No in availa	formation Ible	No informati available	on _		
Biodec	radation							
% Degradatic		me (days)		Method	Evaluatio	n	Note	
No information available		information	No ir availa	formation	No informati available	on No	information ilable	
	umulative pot		(1)(					
	Concentratio n	ion coefficient pH	°C	Method	Evaluat	ion	Note	
		-	-	-	-		-	
Biocon	centration fac	tor (BCF)						
Value	S	pecies		Method	Evaluatio	n	Note	
No information available	No available	information	No in availa	formation ble	No informati available	on _	-	
Chroni	c ecotoxicity					:		
Value	Do	SA I	osure ime	Species	Method	Evaluatio	on Note	9
Chronic toxicity on fish	LC <sub>50</sub>	No infor	rmatio ailable	No information available	No information available No information available		-	



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on crust	nronic toxicity n crustacea EC <sub>50</sub> Daphnia)		Informatio	informatio No information information		rmation lable	No informati on available	ormati -			
12.4	Mobilit	v in soi	1								
		•	dicted distributi	on in environm	ental d	compartme	ents:				
		•	n available								
	Surface										
	Valu		°C	Concentra	ition		Meth	od		Note	
	No informa availab		No information available	No informa available	tion	No infori available		'n	-		
Transpo	•	A/D o	lesorption coefficient	log Kow	E	vaporation	rate	N	lethod	Note	9
	N		's constant information	No information		o informat			ormation		
Soil-wat	er av	ailable		available	av	vailable		availab	le	-	
Water-a	nir No av	o railable	information	No informatio available		o informat ⁄ailable	ion	No info availab	ormation le	-	
Soil-air	No av	o 'ailable	information	No informatio available		No information No inform available available			-		
12.5.			and vPvB asses								
	Substar	nce(s) ii	n the mixture d	o(es) not meet	the cri	teria for PE	BT or	vPvB			
12.6.	Endocri	ine disr	upting properti	ies							
	accordi	ng to F	/mixture does r REACH Article 5 J) 2018/605 at l	7(f) or Commis	sion De	elegated re					
12.7.	Other a	dverse	effects								
14.1.	2										
12.7.	No info	rmatio	n available								



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Trading name:	BIOSCHIFF REAGENT				
Product code:	BS-OT-X**	Date of compilation:	17 Jan 2024	Version:	5

13.1	Waste treatment methods			
	i .			
13.1.1.	Product/Packaging disposal:	Product/Packaging disposal:		
	Submit for disposal to the lega Protection.	al person authorized by the Ministry of Environmental and Nature		
13.1.2.	Waste codes/waste designatio			
	Packaging that contains residu	al hazardous substances or is contaminated with hazardous substances		
13.1.3.	Waste treatment – relevant inf	ormation:		
	No information available			
	1			
13.1.4.	Sewage disposal – relevant info	ormation:		
	Waste must not be disposed o	f into the sewage system.		
13.1.5.	Other disposal recommendation	ons:		
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.			
13.1.6.	Relevant Community provision	IS:		
	-			
SECTION	14. Transport information			
-	Transporting/shipment by road (	(ADR)		
UN numb		Not subject to transport regulations		
UN prope	er shipping name:	-		
Transport	hazard class(es):	-		
Packing g	jroup:	-		
	entally hazardous:	-		
Special precautions for user: -				
i	Transporting/shipment by rail (R	T		
UN number:		Not subject to transport regulations		
	er shipping name:	-		
	hazard class(es):	-		
Packing g	-	-		
Environm	entally hazardous:	-		



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Trading name:		BIOSCHIFF REA	GENT		
Product code:	BS-OT-X**	Date of compilation:	17 Jan 2024	Version:	5

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

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



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

SECTIO	SECTION 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>			
16.3.	Key literature references and source of data:	-			



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

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Trading name:	BIOSCHIFF REAGENT				
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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classifi	cation	)	Classification procedure			
-			-			
16.5.	Rele	evant H statements (num	ber and full text)			
	302 314 H: 318		Harmful if swallowed.			
			Causes severe skin burns and eye damage			
			Causes serious eye damage.			
		331	Toxic if inhaled.			
		350	May cause cancer.			
		EUH031	Contact with acids liberates toxic gas.			
16.6.	Trai	ning advice:	-			
	Further information:		** "X" in the product code marks different volumes (different packagings of the product)			
16.7.					We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:	HCL REAGENT, P.A.S.				
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4	

1.1.	Product identifier				
	Trading name:	HCL REAG	GENT, P.A.S.		
	Chemical name:	-			
	Catalogue number:	HCLP-OT-X**			
1.2.	Relevant identified use	es of the sul	bstance or mi	ixture and uses advised against	
	Uses:	Uses:		ith special staining kits in histopathology.	
	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	Details of the supplier of the safety data sheet			
	Supplier: Bio		BioGnost Ltd	ioGnost Ltd.	
	Address: M		Medjugorska	159, Zagreb	
	Telephone number: +3		+385 1 2409	385 1 2409997	
	Fax no.: +3		+385 1 2404039		
	e-mail of competent p	e-mail of competent person: <u>m</u>		msds@biognost.hr	
	National contact: -				
1.4.	Emergency telephone	Emergency telephone number			
	National Protection ar	d Rescue D	virectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	tion (EC) No 12	72/2008 (CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous substa	ance.	-		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	tements: see S	ection 16		
2.2.	Label elements				
	Product identification:	HCL REAGEN	Γ, P.A.S.		
	Identification number: -				
	Authorization no.: -				
	Hazard pictograms:	-			



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Trading name:	HCL REAGENT, P.A.S.					
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4		

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

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)			
7647-01-0/ 231-595-7/ 017-002-00-2	-	0.7 - 1 %	hydrochloric acid	Skin Corr. 1B; H314 STOT SE 3; H335			

4.1.	Description of first aid measures					
	General notes:		-			
	Following inhalation:		Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to- mouth) and contact a physician.			
	Following skin contact:		Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:		Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.			
	Following ingestion: Self-protection of the first aider:		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.			
			Treat symptomatically.			
4.2.	Most important symptoms and eff		ects, both acute and delayed			
	Following inhalation:	No i	information available			
	Following skin contact:	No i	information available			
	Following eye contact: No i		information available			



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Trading name:	HCL REAGENT, P.A.S.								
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4					

	Following ingestion: No information available
4.3.	Indication of any immediate medical attention and special treatment needed
	-

SECTIC	SECTION 5. Firefighting measures							
5.1.	Extinguishing media							
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> 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 of Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. fire with water spray or vapor.						
5.4.	Additional information							
	Remove sources of heat and ignition.							
	Do not contaminate the environm	ent with extinguishing media.						

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



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Trading name:			HCL REAG	ENT, P.A.S.	
Product code: HCLP-OT-X			Date of compilation:	14 November 2022	Version: 4
6.3.2. Cleaning up:		ıp:	Where possible, the substant material (sand, diatomaceor in tightly closed impermeab ventilated storage rooms up persons authorized by the P Protection. After disposal of materials with water.	us earth, vermiculite). Plac ble containers. Store the su ntil disposal. Submit for di Ministry of Environmental	te the waste material ubstance in well isposal to the legal and Nature

6.3.3.	Other information: -					
6.4.	Reference to other sections					
	See Section 7 for information about secure handling.					
	See Section 8 for information about personal protective equipment.					
	See Section 13 for information about containment.					

SECTIO	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 not smoke.	ignition. Do				
	Measures to prevent aerosol and dust generation	Secure proper ventilation.					
	Measures to protect the environment:	Prevent spilling into the sewage systewaterways.	em and				
	Other measures:	-					
7.1.2.	. Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.						
7.2.	Conditions for safe storage, including any incompatibilities						
	Technical measures and storage conditions:	eep in tightly closed and upright set con entilated storage rooms, and away from unlight, and other incompatible substanc	sources of heat,				
	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 st nd do not use empty containers for stori hemicals. Do not store with incompatible ection 9).	ng other				
7.3.	Specific end use(s)						



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Trading name:		HCL REAG	REAGENT, P.A.S.		
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Recommendations:	-
Industrial sector specific solutions:	-

SECTIO	ON 8. Expos	ure contr	ols/personal	protec	tion				
8.1.	Control pa	rameters							
Substance					cupational exposure limit alues/short term values		Biological limit valu	Biological limit values	
					þ	opm	mg/m <sup>3</sup>		
-			-			-	-	No information available	
Substa name:	ince -								
EC No:	-		CAS No:	-					
DNEL									
					Ind	ustrial			
Route	of exposure:		Acute		Acute	9	Chron	nic Chronic	
Noute	or exposure.	effe	ect local	effe	ect syst	temic	effect lo	ocal effect syste	mic
Oral		-	-	-			-	-	
Inhalat	ion	-	-	-			-	-	
Derma	I	-	-	-			-	-	
Critica	l physical par	ameters: s	solubility, flam	mabilit	ty, corı	rosivity:	-		
					Cor	nsumer	1	Γ	
Route	of exposure:				Acute		Chron		
		effe	ect local	ct local effect sy		temic	effect lo	ocal effect syste	mic
Oral		-		-			-	-	
Inhalat		-		-			-	-	
Derma		-		-			-	-	
PNEC									
	nmental prot	ection tar	get			PNEC			
Fresh v							mation availabl		
Freshwater sediments						No information available			
Marine water						No information available			
	e sediments						mation availabl		
Food o						No information available			
	organisms in	sewage tr	eatment			No information available			
Soil (ag	gricultural)					No infor	mation availabl	le	



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Trading name:		HCL REAG	ENT, P.A.S.	
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Air			No information available				
8.2.	Exposure controls						
8.2.1.	Appropriate engineering controls						
	Substance/mixture relate measures to prevent exp during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prevent exposure:	revent	No information available				
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equi	pment					
8.2.2.1.	Eye and face protection:	n: Safety glasses that stick to face (preventing splashing) (EN visor.					
8.2.2.2.	Skin protection						
			rotective gloves must be according to the EU Directive 2016/425/EEC and tandard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:		ear antistatic clothing made of natural fibers (such as cotton) with long eves (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a for organic vapors, type "A" (boiling point >65°C) acording to EN 7) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No inf	formation available				
8.2.3.	Environmental exposure controls						
	Substance/mixture relate measures to prevent exp		See Section 6				
	Structural measures to preserve exposure:	revent	Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to pr exposure:	event	See Section 6				



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

SECTIC	SECTION 10.: Stability and reactivity				
10.1.	Reactivity:	See subsections 10.3 through 10.5.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	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	ON 11. Toxicological information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008



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Trading name:		HCL REAGENT, P.A.S.						
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4				

Acute toxic	city:						
Route of exposure:	Method	Species	Effective Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure ti	me Results		
Oral exposure:	No information available	-	LD <sub>50</sub>	-	-		
Dermal exposure:	No information available	-	LD <sub>50</sub>	-	-		
Inhalation exposure:	-  (.50 -		-	-			
Specific tar	get organ toxicity – si	nale exposure (S					
Specific tal		ic effects	Target	organ	Note		
Oral exposure:	No information		No informatio		-		
Dermal exposure:	No information		No informatio		-		
Inhalation exposure				No information available -			
Aspiration	hazard:	No infor	mation available				
Irritation a	nd corrosion:						
:	Exposure time	Species	Evaluation	Method	Note		
Skin irritation:	-	-	-				
Eye irritation:	-	-	-				
	1	:		1			
Sensitizatio	on						
Dermal exposure:	No information avail	able					
Inhalation exposure:	No information avail	able					
Symptoms	related to the physica		toxicological chara	cteristics			
Oral exposure: No information available							
Dermal exposure: No information available							
Inhalation exposure: No information available							
Eye exposure:	No information av	/ailable					
Repeated of	dose toxicity (subacute	e, subchronic, ch	ronic)				



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Trading name:	
Product code:	HCLP-OT-X**

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		Dose	Exposure time	Species		Method	Evaluatior	n No	ote
Subacute oral	No i availa	nformation ble	No information available	No informat available	-	No information available	No informatio available	on -	
Subacute dermal	No i availa	nformation ble	No No information information available available			No information available	No informatio available	on -	
Subacute inhalation	No i availa	nformation ble	No information available			No information available	No informatio available	on -	
Subchronic oral	No i availa	nformation ble	No information available	No informati available	-	No information available	No informatio available	on -	
Subchronic dermal	No i availa	nformation ble	No information available	No informati available		No information available	No informatio available	on -	
Subchronic inhalation			No information available	No informati available	-	No information available	No informatio available	on -	
Chronic oral	hronic oral No information available		No information available	No informati available		No information available	No informatio available	on -	
Chronic dermal	No i availa	nformation ble	No information available	No informati available		No information available	No informatio available	on -	
Chronic inhalation	No i availa	nformation ble	No information available	No informati available		No information available	No informatio available	on -	
Specific	target	-	y – repeated e	xposure (S	TOT R				
Culturat			pecific effects		NI *	Target orga			Note
Subacute oral			tion available		No information available		-		
		tion available		No information available			-		
		ition available		No information available No information available			_		
		ition available		No information available			_		
Subchronic inhal			ition available		No information available		-		
Chronic oral			ition available			nformation avai		_	
Chronic dermal		No informa	tion available		No ir	nformation avai	lable	_	



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Trading name:		HCL REAGENT, P.A.S.						
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4				

Chronic	: inhalation	No informa	tion available	No information available	-		
	CMR effects (c	arcinogenicity	; mutagenicity; repro	oductive toxicity)			
	Carcinogenicit	y:	Based on availab	ole data, the classification criteria a	are not met.		
	Mutagenicity i	n-vitro:	Based on availab	ole data, the classification criteria a	are not met.		
	Genotoxicity:		Based on availab	ole data, the classification criteria a	are not met.		
	Mutagenicity i	n-vivo:	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
	Germ cell mut	agenicity:					
	Reproductive 1	oxicity:	Based on availab	ole data, the classification criteria a	are not met.		
	Summary of ev	valuation of th	ne CMR properties:	-			
11.2.	Information or	n other hazard	ls:				
11.2.1.	Endocrine disr	upting proper	ties:				
	No known endocrine disrupting properties that affect human health.						
11.2.2.	Other informa	tions:					
	-						

SECTION 12. Ecological information									
12.1. Toxicity									
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	-	-			
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	-	-			
Algae/aquatic plants	IC <sub>50</sub>	8 days	No information available	No information available	-	-			
Microorganisms	LC <sub>50</sub>	72 hours	-	-	-	-			
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-			
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-			



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Trading name: HCL REAGENT, P.A.S.										
Product code: HCLP-OT-X** Da		Date	Date of compilation: 14		14 November 2022		Versi	on: 4		
Algae/aquatic	plants	IC <sub>50</sub>	72 hou	rc	No information available	vailable available into			rmation - lable	
Other organis	ms	-	-		_	-		-	-	
12.2. Persis	stence a	and degradab	oility							
Abiot	ic degr	adation		1			1			
	Deg	gradation hal	f-lives		Method		Ev	aluation	1	Note
Marine water	No in	formation av	ailable	No i	nformation availa	able	No informat	ion avai	lable	-
Fresh water	No in	formation ava	ailable	No i	nformation availa	able	No informat	ion avai	lable	-
Air	No in	formation ava	ailable	No i	nformation availa	able	No informat	ion avai	lable	-
Soil	No in	formation ava	ailable	No i	nformation availa	able	No informat	ion avai	lable	-
i.	egradat		<u> </u>				E se la settie se			- 4 -
% Degradatio No informatio		Time (days		Method No information			Evaluation No information		Note No information	
available		ailable							vailable	uon
12.3. Bioac	cumula	itive potentia								
Octar	nol-wat	er partition c	oefficien	t (log l	Kow)		Ť		1	
Value	Conce	entration	рН	°C	°C Method		Evaluation			Note
_	No iı availabl	nformation le	-	-	- No information available		No informat available	ion	-	
1	ncentra	ation factor (E	BCF)			1				
Value	•			Method		Evaluation			lote	
No information No information available available			No information available		No information available		No information available			
Chror	nic ecot	toxicity								



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								Page	12 of 16
Trading nam	ne:			HCL I	REAGEN	T, P.A.S.			
Product code: HCLP-OT-X**		CLP-OT-X**	Date of comp		tion: 14	4 Novembe	r 2022	Ver	sion: 4
Val	ue	Dose	Exposure Spe		ies	Method		ation	Note
Chronic toxic	ity on fish	n LC <sub>50</sub>	No No information infor available avail			o formation ailable			-
Chronic toxic crustacea (Da		EC <sub>50</sub>	information	No informa availab	ation inf	No N		ation le	-
10.4	•1•. •								
	oility in so		on in onvironme	ontal co	maartmar				
	•	on available	on in environme	ental CO	mpartmer	115.			
-	ace tensic								
	/alue	°C	Concentrat	ion	M	lethod		N	lote
No infor			No information No			information - ilable			
Adso Transport	A/D	desorption coefficient y's constant	log Kow	Eva	poration r	rate N	1ethod		Note
Soil-water		information	No information available		No information Navailable a		No information - available		
Water-air	No available	information	No information available		No information available		No information available		
Soil-air	Soil-air No information available		No information No		No information No infor available available		ormation ole	-	
12.5. Resu	ults of PBT	۲ and vPvB asses	ssment						
		on available							
12.6. Endo	ocrine dis	rupting properti	ies						
			ng properties th	nat affec	t the envi	ronment.			
12.7. Oth	er advers	e effects							
N		ffacts are evenes							

No adverse effects are expected.



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

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Trading name:	HCL REAGENT, P.A.S.					
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4		

SECTIO	N 13. Disposal consideration	ons		
13.1.	Waste treatment method	S		
13.1.1.	Product/Packaging dispo	sal:		
	-	e legal person authorized by the Ministry of Environmental and Nature		
	Protection.			
10.1.0	· · · · · · ·			
13.1.2.	No information available	nations according to Law:		
	No information available			
13.1.3.	Waste treatment – releva	nt information:		
	No information available			
13.1.4.	Sewage disposal – releva	nt information:		
	Waste must not be dispo	sed of into the sewage system.		
13.1.5.	Other disposal recommer	ndations:		
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.			
13.1.6.	Relevant Community prov	visions:		
	-			
SECTIO	N 14. Transport informatic	on		
	Transporting/shipment by i	road (ADR)		
UN num	ber:	Not subject to transport regulations.		
UN prop	per shipping name:	-		
Transpo	rt hazard class(es):	-		
Packing group:		-		
Environmentally hazardous:		-		
Special p	precautions for user:	-		
,	Transporting/shipment by	rail (RID)		
UN num	ber:	Not subject to transport regulations.		
UN prop	per shipping name:	-		



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Trading name:		HCL REAGENT, P.A.S.					
Product code:	HCLP-OT-X**	Date of compilation: 14 November 2022 Version: 4					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Inland wat	erway transport (ADN	)					
UN number:		Not subject to transport regulations.					
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Transporti	ng/shipment by sea (Il	MDG)					
UN number:		Not subject to transport regulations.					
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Transporti	ng/shipment by air (IC	AO-TI/IATA-DGR)					
UN number:		Not subject to transport regulations.					
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally hazardous:		-					
Special precautions	for user:	-					
Further information	: The product is	not subject to classification.					

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



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Trading name:		HCL REAGENT, P.A.S.						
Product co	ode:	HCLP-OT-X**	Date of compilation: 14 November 2022 Version: 4					
Oth	her EU r	egulations:	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 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					
	ormatio ideline)	n according 1999,	(13/EC about limitation of emissions of volatile organic	compounds (\	/OC-			
National legislation:		egislation:	Chemicals Act, Regulation on classification, packaging dangerous substances, Ordinance on occupational exp and on biological limit values, Regulation on categorie classification of waste with a waste catalog and list of Ordinance on writing Material safety data sheet, Trans Substances Act	posure limit va es, types and hazardous wa	alues ste,			
15.2. Che	emical s	safety assessment						
No	one							

SECTIO	SECTION 16. Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	PBT vPvB LD <sub>50</sub> LC <sub>50</sub> STOT-SE	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			
16.4. Classification and procedure u 1272/2008 (CLP)		sed to derive the	classification for mixture according to Regulation (EC)		
Classific	cation C	Classification procedure			
-					



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

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Trading name:	HCL REAGENT, P.A.S.					
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4		

16.5.	Relevant H statements (number and full text)				
	H:	314	Causes severe skin burns and eye damage.		
		335	May cause respiratory irritation.		
16.6.	5. Training advice:		-		
			** "X" in the product code marks different volumes (different packagings of the product)		
16.7. Further information:		her information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trading name:	HEMATOXYLIN ML					
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9	

SECTI	ON 1: Identification of t	he substand	ce/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Trading name:	ΗΕΜΑΤΟΧ	YLIN ML			
	Chemical name:	-				
	Catalogue number:	HEMML-C	DT-X**			
1.2.	Relevant identified use	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		Modified	hematoxylin acc. to Mayer-Lillie for nuclear staining.		
	Uses advised against:		Only the	identified uses are advised.		
	Reason why uses advis	ed against:	The product is intended for use only as an <i>in vitro</i> 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 safet	y data sheet			
	Supplier:	В	ioGnost Ltd.			
	Address:	N	Medjugorska 59, Zagreb			
	Telephone number:	+	+385 1 2409997			
	Fax no.:	+	+385 1 2404039			
	e-mail of competent p	erson: <u>n</u>	msds@biognost.hr			
	National contact:	_				
1.4.	Emergency telephone	number				
	National Protection an	d Rescue Di	irectorate:	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*:		
	Eye Irr. 2 H319		H319
2.1.2.	Additional information		
	-		
*For full text of Hazard- and EU Hazard-statements: see Section 16			
2.2.	Label elements		
	Product identification:	HEMATOXYLIN ML	
	Identification number:	-	
	Authorization no.:	-	



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Trading name:	HEMATOXYLIN ML					
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9	

	Hazard pictograms:	GHS07	
	Signal word:	Warning	
	Hazard statements:	H319 Causes serious eye irritation.	
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.	
	Supplemetal hazard information (EU):	-	
2.3.	Other hazards		
	<ul> <li>Endocrine Disrupting Properties:</li> <li>No known endocrine disrupting properties</li> <li>Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.</li> </ul>		

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)
7784-31-8/ 616-524-3/ -	-	3 – 4 %	aluminum sulfate octadecahydrate	Eye Dam. 1; H318

SECTION 4. First aid measures		
4.1.	Description of first aid measures	
	General notes:	Take off contaminated clothing.
	Following inhalation:	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.
	Following skin contact:	Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.
	Following eye contact:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
	Following ingestion:	Rinse mouth. Call a doctor if you feel unwell.



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Trading name:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

	Self-protection of the first aider: Treat symptomatically.		
4.2.	Most important symptoms and effects, both acute and delayed		
	Following inhalation:	No information available	
	Following skin contact:	No information available	
	Following eye contact: Risk of blindness, Risk of serious damage to eyes.		
	Following ingestion:	No information available	
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, foam, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the s	ubstance or mixture			
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Do not enter fire area without pro	per protective equipment, including respiratory protection.			
5.4.	Additional information				
	Remove sources of heat and ignit Do not contaminate the environm				

SECTIO	ON 6. Accidental release measures	
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:	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:	
	Do not enter fire area without pro	oper protective equipment, including respiratory protection.
6.2.	Environmental precautions:	
	Do not dispose of in sewage, drai Protection and Rescue Directorate	nage system and waterways. In case of large spillage contact National e (NPRD) on 112.
6.3.	Methods and material for contain	ment and cleaning up



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Trading name:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

6.3.1.	Bunding, covering of drains; capping procedures:	Covering of drains. Take up mechanically.	
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. 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:	Place in appropriate containers for disposal.	
6.4.	Reference to other sections		
	See Section 8 for information	See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment. See Section 13 for information about containment.	

SECTIO	DN 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 generat	ion: Secure proper ventilation.		
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.		
	Other measures:	-		
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated place.		
	Packaging materials:	/anufacturer'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)			



Soil (agricultural)

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

Page 5 of 17 Trading name: **HEMATOXYLIN ML** Product code: **HEMML-OT-X\*\*** Revision date: 27.03.2023. Version: 9 **Recommendations:** \_ Industrial sector specific solutions: \_ **SECTION 8. Exposure controls/personal protection** 8.1. Control parameters Occupational exposure limit values/short term values Substance CAS No **Biological limit values** mg/m<sup>3</sup> ppm No information available \_ \_ \_ \_ Substance Aluminium sulphate octadecahydrate name: CAS No: 7784-31-8 EC No: 233-135-0 DNEL Industrial **Route of** Acute Acute Chronic Chronic exposure: effect local effect systemic effect local effect systemic Oral \_ \_ \_ Inhalation \_ \_ \_ 13,4 mg/m<sup>3</sup> Dermal 3,8 mg/kg bw/day \_ \_ \_ \_ Critical physical parameters: solubility, flammability, corrosivity: Consumer Chronic Acute Acute Chronic **Route of** exposure: effect local effect local effect systemic effect systemic Oral \_ \_ \_ \_ Inhalation \_ \_ \_ \_ Dermal \_ \_ \_ \_ **PNEC PNEC** Environmental protection target 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

No information available



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Trading name:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

Air			No information available		
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture relate measures to prevent expe during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to pr exposure:	revent	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equi	oment	ment		
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection				
	Hand protection:	Chem 374.	nical protection gloves are suitable, which are tested according to EN Glove material: nitrile rubber Glove thickness: > 0.11 mm Break through time: >480 min		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long es (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	In cas	se of inadequate ventilation wear respiratory protection.		
8.2.2.4.	Thermal hazards:	No in	formation available		
8.2.3.	Environmental exposure	controls	5		
	Substance/mixture relate measures to prevent exp		See Section 6		
	Structural measures to pr exposure:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace. Keep away from drains, surface and ground water.		
	Technical measures to pr exposure:	event	See Section 6		

SE	SECTION 9. Physical and chemical properties			
9.	1.	Information on basic physical and cher	nical properties	
			Value	Method



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Trading name:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

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

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

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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Trading name:	HEMATOXYLIN ML							
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9			

Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results
Oral exposure:	anhydrous (ECHA)	rabbit	LD <sub>50</sub>	-	>2.000-<5.000 mg/kg (aluminium sulphate octadecahydrate)
Dermal exposure:	anhydrous (ECHA)	rat	LD <sub>50</sub>	-	>5.000mg/kg (aluminium sulphate octadecahydrate)
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-	-

Specific targ	et organ	toxicity -	single	exposure (	STOT SE)	:

	Specific effects	Target organ	Note
Oral exposure:	No information available	No information available	-
Dermal exposure:	No information available	No information available	-
Inhalation exposure:	No information available	No information available	-

Respiratory irritation:

No information available

			1	1	i de la companya de l
	Exposure time	Species	Evaluati	Meth	Note
	Exposure time	Species	on	od	note
Skin irritation:	-	-	-	-	
Eye irritation:	-	-	-	-	Causes serious eye damage
Dermal exposure:	No information availabl	e			
Inhalation	No information availabl	e			
exposure:					
exposure:					
•	s related to the physical,	chemical and toxic	cological chai	racteristi	CS CS
	s related to the physical, No information avail		ological char	racteristi	CS



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							Page 9	ot I/
Trading name:		HEMATOXYLIN ML						
Product code: HEI		HEMML-OT-X**		evision date:	27.03.2023.	•	Version:	
Inhalation expos Eye exposure:	ure:	No informati Causes serio	on available us eye damag	le				
				,				
Repeat	ed dos	e toxicity (sub	pacute, subch	ronic, chronic)				
		Dose	Exposure time	Species	Method	Evaluatio	n	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No inforr available	nation	-
Subacute dermal	No availa	information able	No information available	No information available	No information available	No inforr available	mation	-
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 availa	information able	No information available	No information available	No information available	No information available		-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available		-
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available		-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No inforr available	nation	-
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No inforr available	nation	-
I								
Specific	targe	t organ toxici		exposure (STO	T RE):			
			Specific effect		Target o	-	1	Note
Subacute oral			tion available		No information		-	
Subacute derma			tion available		No information		-	
Subacute inhalat	ion		tion available		No information		-	
Subchronic oral		No informa	tion available	9	No information	available	-	



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Trading r	name:	HEMATOXYLIN ML								
Product code: HEMM			MML-OT-X**	Revision date:	27.03.2023.	Version:	9			
Subchroni	ic dermal		No information av	ailable	No information available	-				
Subchroni	ic inhalatio	on	No information av	ailable	No information available	-				
Chronic or	ral		No information av	ailable	No information available	-				
Chronic de	ermal		No information av	ailable	No information available	-				
Chronic in	halation		No information av	ailable	No information available	-				
C	CMR effec	ts (ca	rcinogenicity, muta	igenicity, reproductiv	e toxicity)					
C	Carcinogenicity:			No information available						
١	Mutagenicity in-vitro:			No information available						
C	Genotoxic	ity:		No information available						
١	Mutagenio	city in	n-vivo:	No information available						
C	Germ cell	muta	genicity:	No information available						
F	Reproduct	ive to	oxicity:	No information av	ailable					
S	Summary	of eva	aluation of the CMI	R properties:	-					
			other hazards:							
			pting properties:							
-	No knov properties		endocrine disru affect human healt							
11.2.2.	Other info	rmati	ions:							
-										

SECTION 12. Ecological information											
12.1. Toxicity											
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note					
Fish	LC <sub>50</sub>	96 hours	Fish	ECHA	>85.9 mg/l (aluminium sulphate octadecahydrate)	-					
Crustacea:	EC <sub>50</sub>	48 hours	aquatic invertebrates	ECHA	>200 mg/l (aluminium sulphate octadecahydrate)	-					
Algae/aquatic plants	IC <sub>50</sub>	8 days	algae	No information available	-	-					



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Trading name:	HEMATOXYLIN ML							
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Microorganisms	LC <sub>50</sub>	72 hours	-	-	-	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	_
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	EC <sub>50</sub>	180 min	microorganisms	ECHA	>1.000 mg/l (aluminium sulphate octadecahydrate)	-

#### 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	No information available	No information available	No information available	No information available

#### 12.3. Bioaccumulative potential

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

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



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Trading name:	HEMATOXYLIN ML					
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		Thran	on factor (BCF)	/			F				
· · ·		Species inform	Methoo nation No informat						Nc No informat		
available		ava	ilable		availabl		available			available	
	Chronic e	ecoto	kicity								
	Value		Dose		osure me	Species	Meth	od	Eva	aluation	Note
Chronic toxicity on fish LC <sub>50</sub>		LC <sub>50</sub>	No information available		No informat ion available	No inform available	ation	No information available		-	
	Chronic toxicity on crustacea ( <i>Daphnia</i> )		EC <sub>50</sub>	No information available		No informat ion available	No inform available	ation	No information available		-
		natio	licted distribut n available n:	ion in e	nvironm	ental comp	oartments:				
	Value		°C	Concent		entration	ion Method		Note		
	Information		No inform available	mation No info availab		rmation e	No information available		-		
	Adsorptio	on / d	esorption								
Transpor	t	-	oefficient s constant	lo	g Kow	Evapoi	ration rate	М	ethod		Note
Soil-wate	er No avail	able	information	No in availa	formatio ble	n No info availab			ormatior ole	٦ <sub>-</sub>	
Water-ai	r No avail	able	information		formatio ble	n No info availab	ormation le	No info availat	ormatior ole	۱ -	
Water-air available information		available No information available		n No inf	ormation	No inf	ormatior	<b>`</b>			



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Trading name:	HEMATOXYLIN ML					
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12.5.	Results of PBT and vPvB assessment
	No information available
12.6.	Endocrine disrupting properties
	No known endocrine disrupting properties that affect the environment.
12.7.	Other adverse effects
	No adverse effects are expected.
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature
	Protection.
13.1.2.	Waste codes/waste designations according to Law:
13.1.2.	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit
	the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	-
SECTIO	N 14. Transport information
	Transporting/shipment by road (ADR)



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Trading name:			HEMAT	OXYLIN ML			
Product code:	HEMML-OT-X**		Revision date:	27.03.2023.	Version:	9	
	:		:	:	:	1	
UN number:		No	subject to transpo	ort regulations.			
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transport	ing/shipment by rail (	RID)					
UN number:		No	subject to transpo	ort regulations.			
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Inland wa	terway transport (ADN	J)					
UN number:		Not subject to transport regulations.					
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transport	ing/shipment by sea (	IMDG	)				
UN number:		Not subject to transport regulations.					
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transport	ing/shipment by air (l	CAO-	ΓΙ/IATA-DGR)				
UN number:		Not subject to transport regulations.					
UN proper shipping name:		-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					



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Trading name:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

Further information:

The product is not subject to classification.

5.1.	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:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 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;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2000 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;</li> <li>Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> </ul>				
		<ul> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 1</li> <li>December 2008 on classification, labelling and packaging of substances an mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, an amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certai dangerous substances, mixtures and articles (Annex XVII);</li> </ul>				
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)					
	National legislation: Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act					
5.2.	Chemical safety assessme	ent				
	None					

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



-

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Trading	g nan	ne:			HEMAT	OXYLIN ML		
Produc	Product code: HEMML-OT-X*		ŧ	Revision date:	27.03.2023.	Version:	9	
			1		1		1	1
16.2.	Abbreviations and acronyms:		<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>					
16.3.		literat rce of	ture references and data:	I	-			
16.4.			ion and procedure 8 (CLP)	used to	o derive the classifica	ation for mixture acco	ording to Regulation	on (EC)
Classific	ation			Classification procedure				
-				-				
16.5.	Rele	evant l	H statements (num	ber and	full text)			
	H:	318		Cause	s serious eye damag	е.		
	319 Cau		Causes	Causes serious eye irritation.				
16.6.	Trai	ning a	g advice: -					
16.7.	the pr Further information: We ar instru		oduct) e not responsible for	marks different volu r consequences in ca roper use of the proc	se of failure to cor	nply with		

# ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trading name:	<b>PERIODIC ACID, 0.8 % SOLUTION</b>				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTI	ON 1 IDENTIFICATION	OF THE SU	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	PERIODIO	C ACID, 0.8 % S	SOLUTION		
	Chemical name:	-				
	Catalogue number:	PK08-OT	-X**			
1.2.	Relevant identified use	es of the su	bstance or mix	xture and uses advised against		
	Uses:		For use wi	th special staining kits.		
	Uses advised against:		Only the i	dentified uses are advised.		
	Reason why uses advised against		<ul> <li>The product is intended for use only as an <i>in vitro</i> diagnostic</li> <li>t: medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes</li> </ul>			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue I	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ECTION 2 HAZARDS INFORMATION				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification (REGULATION (EC) N	No. 1272/2008 (	CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For ful	text of Hazard- and EU Hazard-sta	tements: see Se	ection 16		
2.2.	Classification according to EC Dire	ective Nr. 1272/2	2008 CLP)		
	Product identification:	PERIODIC ACII	D, 0.8 % SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION			
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

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

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



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION			
Product code:	PK08-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 immedia	te 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 <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the su	ibstance or mixture			
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit of Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. fire with water spray or vapor.			
5.4.	Additional information				
	Remove sources of heat and ignition.				
	Do not contaminate the environme	ent with extinguishing media.			

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



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION							
Product code:	PK08-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	DN 7 HANDLING AN STORAGE					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire: Measures to prevent aerosol and dust generation: Measures to protect the environment:		Keep away from sources of heat and ignition. Do not smoke.			
			Secure proper ventilation.			
			Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	venti	in tightly closed and upright set containers in a well lated storage rooms, and away from sources of heat, ght, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	•	away from food and drink. Keep the containers ly closed.			
	Advices for storage equipment:	The storage must be made of hard material; floors be resistant to chemicals. There must be no drain the directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	and o chem	ot place the unused material in the storage room do not use empty containers for storing other nicals. Do not store with incompatible materials (see on 9).			
7.3.	Specific end use(s)					



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION						
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

Recommendations:	-
Industrial sector specific solutions:	-

SECTIO	ON 8 EXPOSU	RE CON	TROLS/PER	SONAL	PROTE	CTION			
8.1.	Control para	ameters							
Substance				-		exposure limit term values		ological limit values	
					р	om	mg/m <sup>3</sup>		-
			-	-	No infor	mation available			
Substa name:	ince -								
EC No:	-		CAS No:	-					
DNEL									
					Indu	ıstrial			
Route	of	ļ	Acute		Acute		Chro	nic	Chronic
exposure: ef		effe	ect local	effe	ect syste	emic	effect	ocal	effect systemic
Oral		-		-			-		-
Inhalat	ion	-		-			-		-
Derma	I	-		-			-		-
Critical	l physical para	meters: s	solubility, fla	mmabilit	ty, corro	osivity:	-		
				1	Cons	sumer	1		1
Route	-		Acute				Chro		Chronic
expos	ure:	effe	ect local	al effect sys		emic	effect	ocal	effect systemic
Oral		-		-			-		-
Inhalat	ion	-		-			-		-
Derma	l	-		-			-		-
PNEC									
	nmental proteo	ction tar	get			PNEC			
Fresh v						No information available			
	vater sediment	S				No information available			
Marine water					No information available				
	e sediments						mation availab		
Food c	hain					No information available			
Microc	organisms in se	ewage tr	eatment			No information available			
Soil (ag	gricultural)					No infor	mation availat	le	



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION							
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4				

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

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION						
Product code:	PK08-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
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

SECTIO	SECTION 10 STABILITY AND REACTIVITY				
10.1.	Reactivity:	See subsections 10.3 through 10.5.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.			
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.			
10.5.	Incompatible materials:	Aluminum.			
10.6.	Hazardous decomposition products:	No information available.			

#### SECTION 11 TOXICOLOGICAL INFORMATION



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION							
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4				

Acute toxi	city:					
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure t	ime	Results
Oral exposure:	No information available	-	LD <sub>50</sub>	-		-
Dermal exposure:	No information available	-	LD <sub>50</sub>	-		-
Inhalation exposure:	No information available	-	LC <sub>50</sub>	_		-
Specific ta	rget organ toxicity – si	ngle exposure (S	TOT SE):			
	Specif	Target	organ		Note	
Oral exposure:	No information	available	No informatio	n available	-	
Dermal exposure:	No information	available	No informatio	n available	-	
Inhalation exposure	e: No information	available	No informatio	No information available -		
÷						
Respirator	y irritation:	No inform	nation available			
Irritation a	nd corrosion		1 1			
	Exposure time	Species	Evaluation	Method		Note
Skin irritation:	-	rabbit	-			
	-	rabbit rabbit	-			
Eye irritation:	-					
Eye irritation: Sensitizati	- on	rabbit				
Eye irritation: Sensitizati Dermal exposure:	on No information avail	rabbit				
Sensitizati	- on	rabbit				
Eye irritation: Sensitizati Dermal exposure: Inhalation exposure:	on No information avail	able				
Eye irritation: Sensitizati Dermal exposure: Inhalation exposure:	on No information avail No information avail s related to the physica Swallowing may c sensation; higher	able able I, chemical and to ause irritation of levels of concent g, aspiration cause	- oxicological charad mucosa, tingling s ration may cause r ses coughing, diffi	cteristics sensation in th	ninal pai	n and vomitir



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Trading name:		P	ERIODIC AC	ID, 0.8 <sup>°</sup>	% SOLUT	ΓΙΟΝ		
Product code:	PK08-OT-X**	D	ate of compi	lation:	21 Dec	2022	Version:	4
Inhalation exposi	Ire <sup>.</sup>	-	ts of vapors in ache and naus	•	ately vent	tilated perim	eter may o	ause
Eye exposure:	Direct eye c sensation.	ontact may ca	use slight to m	oderate	irritation,	lacrimation	and burnir	ıg
1								
Repeate	d dose toxicity (su	bacute, subchr	onic, chronic)			- 1		
	Dose	Exposure time	Species	Met	hod	Evaluatior	n Not	e
Subacute oral	No information available	No information available	No information available		rmation lable	No informatio available	on -	
Subacute dermal	No information available	No information available	No information available	formation information in		No informatio available	on -	
Subacute inhalation	No information available	No information available	No information available	No No information information available available		on -		
Subchronic oral	No information available	No information available	No information available		rmation lable	No informatio available	on -	
Subchronic dermal	No information available	No information available	No information available		rmation lable	No informatio available	on -	
Subchronic inhalation	No information available	No information available	No information available		rmation lable	No informatio available	on -	
Chronic oral	No information available	No information available	No information available		rmation lable	No informatio available	on -	
Chronic dermal	No information available	No information available	No information available	-	rmation lable	No informatio available	on -	
Chronic inhalation			No information available		rmation lable	No informatio available	on -	
				<b>T D C</b>				
Specific	target organ toxic		•					
<u> </u>		Specific effects			arget org			ote
Subacute oral		ation available			ation ava		-	
Subacute dermal Subacute inhalati		ation available ation available			ation ava ation ava		-	



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							P	Page 10 of 16			
Trading	name:			PI	ERIODIC A	CID, 0.8 % SOLUTION					
Product	code:	PK08	3-OT-X**	Da	ate of comp	ilation: 21 Dec 2022	<u>۱</u>	/ersion: 4			
Subchro	nic oral	1	No information	n available	)	No information available		-			
Subchro	nic derma	1 1	No informatior	n available	9	No information available		-			
Subchro	nic inhalat	alation No information		n available	)	No information available		-			
Chronic	oral	1	No informatior	n available	)	No information available		-			
Chronic	c dermal No information		n available	)	No information available		-				
Chronic	hronic inhalation No information		n available	2	No information available		-				
	CMR effe	cts (caro	cinogenicity, m	utagenicit	ty, reproduct	ve toxicity)					
	Carcinogenicity:		Current s	studies on te	st animals did not indica	te carcin	ogenic effects.				
	Mutagen	agenicity <i>in-vitro</i> :		Current in vitro tests did not indicate mutagenic effects.							
	Genotoxi	otoxicity:		No inforr	mation availa	able					
	Mutagenicity in-vivo:		Current	<i>in vivo</i> test	did not indicate mutag	genic eff	ects.				
	Germ cell	l mutage	enicity:	No inforr	mation availa	able					
	Reproduc	ctive tox	cicity:	No toxicity on reproductive organs was determined in reproductive organs.							
	Summary	of eval	uation of the C	CMR prope	erties: -						
11.2	Informati	on on o	ther hazards:								
11.2.1.	Endocrine	e disrup	ting properties	5:	1						
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.										
11.2.2.	Other info	ormatio	ns:								
	-										
, I											

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



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Trading name:		PERIODIC ACID, 0.8	% SOLUTION		
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Crustacea:		EC <sub>50</sub>	48 hou	urs	No information available		No formation available		-	-
Algae/aquatic	: plants	IC <sub>50</sub>	8 days		No information available		No formation available		-	-
Microorganis	ms	LC <sub>50</sub>	72 hou	urs				-	-	
			Expos tim		Species		Method	Eva	luation	Note
Fish LC <sub>50</sub> 96			96 hou	urs	available		ormation ilable	No inforn availa	nation ble	-
Crustacea: EC <sub>50</sub>		48 hou	urs	No information available		ormation ilable	No inforn availa	nation ble	-	
Algae/aquatic	Igae/aquatic plants IC <sub>50</sub>		72 hou	urs	No information available		No information available		nation ble	-
Other organis	ms	-	-					-		-
12.2. Persi	stence a	and degrada	ability							
Abio	tic degr	adation								
	Deg	gradation ha	alf-lives		Method		Evaluation		Note	
Marine water	No in	formation a	vailable	Nc	o information avail	n available No inforr		mation available		-
Fresh water	No in	formation a	vailable	No	o information available No infor		No inforn	mation available		-
Air	No in	formation a	vailable	Nc	information available No inform			mation available -		
Soil	No in	formation a	vailable	Nc	information avail	information available No inform		mation available -		-
	egradat									
% Degradatio		Time (day			Method		Evaluatio			Note
No informatic available		o info ailable	rmation	No i avail	nformation able		o informati /ailable	on	No information available	
		tive potenti								
		efficient: n-o			-					
Value	Conc	entration	рН	°(	C Method		Evalu	ation		Note



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Trading	g name	e:				PER	IODIC	CACID,	0.8 %	SOLUT	ION		
Produc	t code	:	PK08-OT-	X**		Date	of co	ompilati	on: 2	1 Dec	2022	Vers	sion: 4
-		No availat	informatior ble	ו -		_	No info availab	ormatior lle	-	inform ailable	ation	-	
	Bioco	ncenti	ration facto	r (BCF)									
V	Value Species			ecies	Method			d	Evaluation				Note
No info availabl			No available	inform	ation	No info availabl		on	No inf availat	ormatio ple	on	No info availabl	rmation e
	Chron	nic ecc	otoxicity		4	-	2		2		-		
	Valu	e	Dose		Exposure time		Sp	ecies	Met	hod	Eva	luation	Note
Chronic	toxicity	toxicity on fish LC <sub>50</sub>		0	information in		No infor availa	mation able	No inform availat		No inf availat	ormation ble	-
Chronic crustace	-	-	EC	50	information i		No infor availa	mation able	No inform availat		No inf availat	ormation ble	-
12.4.	Mobil	ity in s	soil										·
		•	redicted di	stributi	on in e	environm	ental	compart	ments:				
			tion availat					•					
	Surfac	ce tens	sion:										
	Va	alue	o	С	C	oncentra	tion		Metho	bd			Note
	No inform availa		No informa availabl			informat ailable	tion	No inf availat	ormatio ple	n	-		
	Adsor	ption	/ desorptic	n									
Transpc		A/	D coefficier	nt	lc	og Kow	E	Evaporation rate		e Method			Note
Soil-water No information available		ation	No ir availa	nformatic able		o inform /ailable	ation	No information available		on _			



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								Page 13 (	of 16			
Trading	g name:		PERIODIC ACID, 0.8 % SOLUTION									
Produc	t code:	PK	(08-OT-X**	Date o	f compilation:	21 Dec 2	2022	Version:	4			
Water-a	air No ava	ilable	information	No information available	No informatior available			-				
Soil-air	No ava	ilable	information	formation ble	-							
12.5.			and vPvB asse									
12.3.	The sub accordir	stance g to R	/mixture does REACH Article 5	not contain comp 7(f) or Commissio levels of 0.1% or h	n Delegated regu							
12.6.	Endocri	ne disr	upting propert	ies								
	accordir	g to R	REACH Article 5	not contain comp 7(f) or Commissio levels of 0.1% or h	n Delegated regu				•			
12.7.	Other a	lverse	effects									
	No info	matio	n available									
<b>SECTIO</b> 13.1.			L CONSIDERA	TIONS								
15.1.	vvasie	lleall	nent methous									
13.1.1.	Produ	ct/Pac	kaging disposa	l:								
	Subm Protec		lisposal to the l	egal person authc	prized by the Min	istry of Env	vironmenta	al and Natu	re			
13.1.2.	Waste	codes	s/waste designa	ations according to	o Law:							
	No inf	ormat	ion available									
13.1.3.	\\/aste	troatr	nent – relevant	information:								
15.1.5.			ion available									
13.1.4.	Sewag	e disp	osal – relevant	information:								
	Waste	must	not be dispose	d of into the sewa	ige system.							
13.1.5.	Other	dispos	sal recommend	ations:								
	1											



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Trading name:		PERIODIC ACID, 0.8	% SOLUTION	
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.						
13.1.6.	Relevant Community pro	ovisions:					
	-						
SECTIO	N 14 TRANSPORT INFOR	MATION					
	Transporting/shipment by	road (ADR)					
UN num	ıber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					
Transpo	ort hazard class(es):	-					
Packing	group:	-					
Environ	mentally hazardous:	-					
Special	precautions for user:	-					
	Transporting/shipment by	rail (RID)					
UN num	ıber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					
Transpo	ort hazard class(es):	-					
Packing	group:	-					
Environ	mentally hazardous:	-					
Special	precautions for user:	-					
	Inland waterway transport	(ADN)					
UN num	ıber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					
Transpo	ort hazard class(es):	-					
Packing	group:	-					
Environ	mentally hazardous:	-					
Special	precautions for user:	-					
	Transporting/shipment by	sea (IMDG)					
UN num	ıber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					
Transpo	ort hazard class(es):	-					
Packing	group:	-					
Environ	mentally hazardous:	-					
Special	precautions for user:	-					



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION						
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

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

EU regulations	
Lo regulations	
Authorization and/or rest	rictions of use
Authorizations:	_
Restrictions:	-
Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;</li> <li>Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16</li> </ul>
	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);
	Authorizations: Restrictions:



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION					
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	
National legislation:		Chemicals Act, Regulation on class dangerous substances, Ordinance and on biological limit values, Reg classification of waste with a waste Ordinance on writing Material safe Substances Act	on occupational ex ulation on categor catalog and list of	xposure limit v ies, types and f hazardous w	alues aste,	

15.2.	Chemical safety assessment
	None

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

# ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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Trading name:	SODIUM METABISULFITE, SOLUTION						
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4		

SECTI	ON 1: Identification of t	he substanc	e/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Trading name:	SODIUM N	<b>METABISULFI</b>	TE, SOLUTION		
	Chemical name:	-	-			
	Catalogue number:	NM-OT-X*	**			
1.2.	Relevant identified use	es of the sub	stance or mi	xture and uses advised against		
	Uses:		For use w	ith special staining kits.		
	Uses advised against:		Only the i	dentified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier of the safety data sheet					
	Supplier: Bio		lioGnost Ltd.			
	Address:	N	Medjugorska 59, Zagreb			
	Telephone number:	+	385 1 2409997			
	Fax no.:	+	385 1 2404039			
	e-mail of competent p	erson: <u>r</u>	msds@biognost.hr			
	National contact:	-				
1.4.	Emergency telephone	number				
	National Protection an	d Rescue Di	rectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification						
2.1.	Classification of the substance or	· mixture					
2.1.1.	Classification according to Regula	ation (EC) No 1272/20	08 (CLP)				
	Hazard class and cated	gory code:	Hazard statements*:				
	Eye Irr. 2 H319						
2.1.2.	Additional information						
	-						
*For full	text of Hazard- and EU Hazard-sta	atements: see Section	16				
2.2.	Label elements						
	Product identification:	SODIUM METABISUL	FITE, SOLUTION				
	Identification number: -						
	Authorization no.:	-					



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Trading name:	SODIUM METABISULFITE, SOLUTION							
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4			

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statements:	H319 Causes serious eye irritation.
	Precautionary statements:	<ul> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</li> <li>P308+P313 IF exposed or concerned: Immediately call a POISON CENTER or physician.</li> </ul>
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	<b>Endocrine Disrupting Proper</b> No known endocrine disruptin <b>Results of PBT and vPvB asse</b> 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)				
7681-57-4/ 231-673-0/ 016-063-00-2	-	< 10 %	sodium metabisulfite	Acute Tox. 4, H302 Eye Dam. 1; H318 EUH031				

SECTI	SECTION 4. First aid measures						
4.1.	Description of first aid measu	ires					
	General notes:	Take off contaminated clothing.					
	Following inhalation:	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.					
	Following skin contact:	Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.					
	Following eye contact:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.					



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Trading name:	SODIUM METABISULFITE, SOLUTION						
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4		

	Following ingestion:		Rinse mouth. Call a doctor if you feel unwell.		
	Self-protection of the first aider:		Treat symptomatically.		
4.2.	Most important symptoms and e		fects, both acute and delayed		
	Following inhalation: No i		information available		
	Following skin contact: No		o information available		
	Following eye contact: Risk		of blindness, Risk of serious damage to eyes.		
	Following ingestion:	No i	No information available		
4.3.	Indication of any immediate med		ical attention and special treatment needed		
	-				

SECTIC	ON 5. Firefighting measures			
5.1.	Extinguishing media			
	Suitable extinguishing media:	Small fire - water spray, dry powder, foam, CO <sub>2</sub> 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			
	Do not enter fire area without proper protective equipment, including respiratory protection.			
5.4.	Additional information			
	Remove sources of heat and ignit Do not contaminate the environm			

SECTIO	CTION 6. Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment: Use personal protective equipment (see Section 8).					
	Accident prevention methods: Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.					
	Emergency procedures:	Emergency procedures: Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Do not enter fire area without proper protective equipment, including respiratory protection.					
6.2.	Environmental precautions:					
	Do not dispose of in sewage, drain Protection and Rescue Directorate	age system and waterways. In case of large spillage contact National (NPRD) on 112.				



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Trading name:	SODIUM METABISULFITE, SOLUTION					
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4	

6.3.	Methods and material for containment and cleaning up						
6.3.1.	Bunding, covering of drains; capping procedures:	Covering of drains. Take up mechanically.					
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. 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:	Place in appropriate containers for disposal.					
6.4.	Reference to other sections						
	See Section 7 for information about secure handling.						
	See Section 8 for information about personal protective equipment.						
	See Section 13 for informatic	See Section 13 for information about containment.					

SECTIC	N 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 generat	ion:	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 inco	mpatibili	ties			
	Technical measures and storage conditions:	•	tightly closed and upright set containers in a well red place.			
	Packaging materials:	Manufa	acturer's original packaging.			
	Requirements for storage rooms and vessels:	quirements for storage rooms and vessels: Keep away tightly clo				
	Advices for storage equipment:	Advices for storage equipment: Advices for storage equipment:				
	Further information on storage conditions:	and do	place the unused material in the storage room not use empty containers for storing other als. Do not store with incompatible materials (see 9).			



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Trading name:	SODIUM METABISULFITE, SOLUTION					
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4	

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

SECTION 8. Exposure controls/personal protection										
8.1. Contro	ol para	ameters								
Substance				cupational exposure limit values/short term values			E	Biological limit values		
						ppm		mg/m³		
-			-			-		-	No ir	nformation available
Substance name:	-									
EC No:	-		CAS No:	-						
DNEL										
					Inc	dustrial				
Route of		A	Acute		Acute	9		Chronic		Chronic
exposure:		effe	ect local	ef	fect syst	temic		effect local		effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
Critical physical	l parar	neters:	solubility, fla	mmab	ility, cor	rrosivity:		-		
					Co	nsumer	T			
Route of		A	Acute		Acute		Chronic			Chronic
exposure:		effe	ect local effect s		fect syst	temic		effect local		effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC						1				
Environmental	protec	tion tar	get			PNEC				
Fresh water			No information available							
Freshwater sediments				No information available						
Marine water				No info	rmatio	on available				
Marine sediments				No information available						
Food chain						No information available				
Microorganism	is in se	wage tr	eatment			No information available				



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Trading name:		SODIUM METAB	SISULFITE, SOLUTION			
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4	

Soil (agric	cultural)		No information available			
Air			No information available			
8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent expo during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to pr exposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	Personal protection equipment				
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					
	Chem 374. Hand protection:		emical protection gloves are suitable, which are tested according to EN 4. Glove material: nitrile rubber Glove thickness: > 0.11 mm Break through time: >480 min			
	Other skin protection:		r antistatic clothing made of natural fibers (such as cotton) with long /es (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	In cas	se of inadequate ventilation wear respiratory protection.			
8.2.2.4.	Thermal hazards:	No in	nformation available			
8.2.3.	Environmental exposure of	controls	S			
	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. Keep away from drains, surface and ground water.			
	Technical measures to pre exposure:	event	See Section 6			

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



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Trading name:	1	SODIUM METAB	ISULFITE, SOLUTION		
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4

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

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

 SECTION 11. Toxicological information

 11.1.
 Information on hazard classes as defined in Regulation (EC) No 1272/2008



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Trading name:	S	ODIUM METABISULFITE, SOLUTION						
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Acute toxi	city:						
Route of exposure:		Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Expos tim		Results
Oral exposure:		information ilable	_	LD <sub>50</sub>	-		-
Dermal exposure:		information ilable	-	LD <sub>50</sub>	-		-
Inhalation exposure:		information ilable	-	LC <sub>50</sub>	-		-
Specific ta	irget	organ toxicity – sing	le exposure (STO)	SE):			
		Specific	c effects	Targ	et organ		Note
Oral exposure:		No information ava	ailable	No information available		-	
Dermal exposure:		No information ava	ilable	No information available		-	
Inhalation exposure: No information avai		ilable	No information available		-		
Respirator	ry irri <sup>.</sup>	tation:	No information	available			
Irritation a	and c	orrosion					
		Exposure time	Species	Evaluati on	Meth od		Note
Skin irritation:	-		-	-	-		
Eye irritation:	-		-	-	-	Causes s	erious eye damage
Sensitizati	on						
Dermal exposure:	No	information availabl	le				
Inhalation exposure:	No	information availabl	e				
Symptom	s rela	ted to the physical,	chemical and toxic	ological chara	acteristics	5	
Oral exposure:	1	No information avail	able				
•	No information available						
Dermal exposure:	1	No information avail	able				



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Trading name:		SODIUM METABISULFITE, SOLUTION					
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Repeat	ed dose toxicity (su	bacute, subchr	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluatio	า	Note
Subacute oral	No information available	No information available	No information available	No information available	No inforn available	nation	-
Subacute dermal	No information available	No information available	No information available	No information available	No inforn available	nation	-
Subacute inhalation	No information available	No information available	No information available	No information available	No inforn available	nation	-
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 inforn available	nation	-
Specific	target organ toxici		•				N - + -
Subscuts and	NI- :	Specific effect	.S	Target or	-		Note
Subacute oral Subacute derma		ation available		No information		-	
Subacute derma		ation available		No information		-	
Subchronic oral		ation available				_	
Subchronic derm		ation available		No information available No information available		-	



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Trading	name:	SODIUM METABISULFITE, SOLUTION									
Product	code:	NM-OT-X**	Revision date:	Revision date: 21 Dec 2022							
Subchronic inhalation No information av		available	No information available	-							
Chronic oral No information avail		available	No information available	-							
Chronic dermal No information ava		available	No information available	-							
Chronic	inhalation	No informatior	available	No information available	-						
			nutagenicity, reproductiv								
	Carcinogenicity:		No information av	No information available							
	Mutagenicity <i>in-vitro</i> :		No information av	railable							
	Genotoxic	ity:	No information av	ailable							
	Mutagenio	city <i>in-vivo</i> :	No information av	vailable							
	Germ cell	mutagenicity:	No information av	No information available							
	Reproduct	tive toxicity:	No information av	No information available							
	Summary	of evaluation of the (	CMR properties:	-							
11.2.	Informatio	on on other hazards:									
11.2.1.	Endocrine	disrupting propertie	s:								
	No kno properties	wn endocrine di that affect human h	srupting ealth.								
11.2.2.	Other info	rmations:									
	_										

SECTION 12. Ecologi	SECTION 12. Ecological information									
12.1. Toxicity										
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-				
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-				
Algae/aquatic plants	IC <sub>50</sub>	8 days	No information available	No information available	No information available	-				
Microorganisms	LC <sub>50</sub>	72 hours	-	-	-	-				
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-				



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Trading nam	ne:			SOE	DIUM META	BISUL	FITE, SOLU	TION		
Product cod	e:	NM-OT-X	**	Re	evision date:	21	21 Dec 2022		Version:	4
Crustacea:		EC <sub>50</sub>	48 hours		information lable	No information available		No information available		_
Algae/aquatic plants			72 hours		information lable	No ir availa	nformation able	No in availa	formation ble	-
Other organis	sms	ms microorganisms No information No information available		formation Ible	-					
12.2. Pers	istence	and degrad	dability							
Abic	otic deg	radation								
	De	gradation h	alf-lives		Method		Εν	valuatio	'n	Note
Marine water	No ir	formation	available	No inf	formation avai	lable	No informa	tion ava	ailable	-
Fresh water	No ir	formation	available	No inf	No information available No			tion av	ailable	-
Air	No ir	formation	available	No inf	No information available No			No information available		
Soil	No ir	formation	available	No inf	formation avai	lable	No informa	tion av	ailable	-
Biod	legrada	tion								
% Degradatio		Time (da	ays)	Ν	1ethod		Evaluation		No	te
No informatic available		o info railable	ormation	No info availabl		No ir availa	nformation able		No informati available	on
12.3. Bioa	iccumul	ative poten	tial			1				
Part	ition co	efficient: n-	octanol/w		Kow):				1	
Value		entration	рН	°C	Method		Evaluat		N	ote
-	No ir availab	formation le	-	-	- No informat available		tion No informatic available		-	
		ration facto	r (BCF)							
Bioc	oncent									
Bioc	oncent		cies		Method		Evaluation		No	ote



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Trading name:	me: SODIUM METABISULFITE, SOLUTION				
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4

	Value	Dose	Exposure time		Species	Meth	od	Evaluati	on	Note	
Chronic toxicity on fish LC <sub>50</sub>			No information available		No inform available	nation	No informat available	tion	-		
	toxicity on a ( <i>Daphnia</i> )	EC <sub>50</sub>	No inforr availa	nation ic	lo nformat on vailable	No inform available	nation	No informat available	tion	-	
12.4.	Mobility in	soil									
	Known or p	predicted distribut	ion in e	environmer	ntal comp	partments:					
	No information available										
	Surface tension:										
	Value	°C		Concentra		Method			Note		
	No information available	n No inforr available			No information available		No information available				
		/ desorption									
Transpo	rt 🛛	'D coefficient nry's constant	lo	log Kow		Evaporation rate		Method		ote	
Soil-wat	er No availat	information ole	No in availa	formation ble			No inf availat	ormation ole	-		
Water-a	ir No availat	information ple	No in availa	formation ble	No info availab	ormation le	No inf availat	ormation .	-		
Soil-air	No availat	information ple	No in availa	formation ble	No info availab	ormation le	No inf availat	ormation . Die	_		
12.5.	Results of I	PBT and vPvB asse	ssmant								
		ation available	.ssment								



# **SAFETY DATA SHEET** RIOGNOST<sup>®</sup> According to Regulation (EC) No. 1907/2006

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Trading	name:		SODIUM METABISULFITE, SO	LUTION			
Produc	t code:	NM-OT-X**	Revision date: 21 Dec 2022	Version: 4			
	No know	vn endocrine disrupting	properties that affect the environment.				
12.7.	Other ad	lverse effects					
	No adve	rse effects are expected	d.				
SECTIO	N 13. Disj	posal considerations					
13.1.	Waste	treatment methods					
13.1.1.	Product/Packaging disposal:						
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.						
13.1.2.	Waste	codes/waste designatic	ons according to Law:				
	No info	ormation available					
13.1.3.	Waste	treatment – relevant in	formation:				
	No info	ormation available					
13.1.4.	Sewage	e disposal – relevant inf	formation:				
	Waste must not be disposed of into the sewage system.						
13.1.5.	Other o	disposal recommendati	ons:				
	Do not authori the pac	dispose of the product zed by the ministry in a	t's remains into the sewage system. Subr charge. Do not dispose of the packaging is authorized by the ministry in charge. D	into the sewage system. Submi			

ignition may occur.

-

Relevant Community provisions: 13.1.6.

#### **SECTION 14. Transport information**

Transporting/shipment by r	/shipment by road (ADR)		
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmentally hazardous:	-		



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Trading name:	SODIUM METABISULFITE, SOLUTION					
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4	

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

SECTIC	SECTION 15. Regulatory information			
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			



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Trading name:	SODIUM METABISULFITE, SOLUTION				
Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4

	Authorization and/or rest	trictions of use		
	Authorizations:	-		
	Restrictions:	-		
		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;		
	Other EU regulations:	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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Trading name:			SODIUM METABISULFITE, SOLUTION				
Product code:		NM-OT-X**		Revision date:	21 Dec 2022	Version: 4	
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.		erature references an e of data:	ıd	-			
16.4.		Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classifi	cation		Classif	Classification procedure			
-			-				
16.5.	Releva	nt H statements (nur	nber and	full text)			
	H: 3	02 18 19 JH031	Cause: Cause:	ul if swallowed. s serious eye damag s serious eye irritatic ct with acids liberate	on.		
16.6.	Trainir	ng advice:	-				
16.7.	Furthe	er information:	<ul> <li>** "X" in the product code marks different volumes (different packagings of the product)</li> <li>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</li> </ul>				

ANNEX: Exposure scenario resulting to Chemical safety assessment

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