

ALCIAN BLUE-P.A.S. KIT

VERSION 3

The kit contains:

Alcian Blue solution pH 2.5
BioSchiff reagent
HCL reagent, P.A.S.
Hematoxylin ML
Periodic acid, 0.8% solution
Sodium metabisulphite, solution
Sodium tetraborate, solution



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

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Trading name:	ALCIAN BLUE SOLUTION pH 2.5						
Product code:	AB2-OT-X**	Date of compilation:	07 October 2024	Version:	7		

1.1.	Product identifier				
	Trading name:	ALCIAI	N BLUE SOLUTIC	N pH 2.5	
	Chemical name:	-			
	Catalogue number:	AB2-O	T-X**		
1.2.	Relevant identified us	es of the	substance or mi	xture and uses advised against	
	Uses:		For staining ac	cid mucopolysaccharides of intestinal goblet cells.	
	Uses advised against:		Only the ident	ified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent	person:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone number			
	National Protection a	nd Rescu	e Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and category	code:	Hazard statements*:				
	Not identified as hazardous substa	ance.	-				
2.1.2.	Additional information						
	-						
*For fu	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16				
2.2.	Label elements						
	Product identification:	ALCIAN BLUE	SOLUTION pH 2.5				
	Identification number: -						
	Authorization no.:	_					
	Hazard pictograms:	-					



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

SECTION 3. Composition/information on ingredients								
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
64-19-7/ 200-580-7/ 607-002-00-6	-	≤ 3%	Acetic acid, 99.5%	Flam. Liq. 3; H226 Skin Corr. 1 A; H314				

SECTIO	ECTION 4. First aid measures					
4.1.	Description of first aid mea	sures				
	General notes:		-			
	Following inhalation:		No information available			
	Following skin contact:		No information available			
	Following eye contact: Following ingestion:		No information available			
			No information available			
	Self-protection of the first	aider:	Treat symptomatically.			
4.2.	Most important symptoms	and ef	fects, both acute and delayed			
	Following inhalation:	No	information available			
	Following skin contact:	No	information available			
	Following eye contact:	No	information available			
	Following ingestion:	No	No information available			
4.3.	Indication of any immediate medical attention and special treatment needed					
	-					

SECTION	ON 5 Firefighting measures
5.1.	Extinguishing media



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

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



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See Section 7 for information about secure handling.

See Section 8 for information about personal protective equipment.

See Section 13 for information about containment.

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

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



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										rage 5 or 10
Trading na	ıme:				ALCI	AN BLUE	SOLU	TION p	H 2.5	
Product co	code: AB2-OT-X**				Date o	of compila	ition:	07 Oc	tober 2024	Version: 7
										i i
-			-			-		-	No informa	ation available
Substance	_									
name:							ı			
EC No:	-		CAS No:	-						
DNEL										
		1			Inc	dustrial				
Route of			Acute		Acut			Chro		Chronic
exposure:		effe	ect local	et	ffect sys	temic		effect l	ocal	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		_		-			-			-
Critical phys	sical para	meters: s	solubility, fla	ımmab	ility, cor	rosivity:		-		
		1			Со	nsumer				
Route of					Acut			Chro		Chronic
exposure:		effe	ect local	effect sys		temic	effect local		ocal	effect systemic
Oral		-		-		-			-	
Inhalation		-		-		-			-	
Dermal				-			-			-
PNEC						T				
Environmer	ntal prote	ection tar	get			PNEC				
Fresh water	•					No information available				
Freshwater	sedimen	ts				No information available				
Marine wate	er					No infor	mation	availabl	е	
Marine sedi	iments					No infor	mation	availabl	е	
Food chain						No infor	mation	availabl	е	
Microorgan	isms in s	ewage tr	eatment			No infor	mation	availabl	е	
Soil (agricul	tural)					No infor	mation	availabl	е	
Air			No information available							
8.2.	Exposu	re contro	ls							
8.2.1.	Approp	riate eng	ineering co	ntrols						
	measur		ire related vent exposu uses:	Ire :		•			d rooms. Use smoke in the	e personal protective e workspace.
	Structu		ires to preve	ent	No info	rmation av	vailable	e		



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	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					
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection						
			tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374.				
	Hand protection:		Glove material: nitrile rubber				
			Glove thickness: ≥0.50 mm				
		Break through time: >480 min					
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter fo	ctive full face mask (EN 136) or half mask (EN 140) equipped with a cor organic vapors, type "A" (boiling point >65°C) according to EN) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No inf	ormation available				
8.2.3.	Environmental exposure	controls					
	Substance/mixture relate measures to prevent exp		See Section 6				
	Structural measures to prevent exposure:		Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to prexposure:	event	See Section 6				

SECTI	SECTION 9. Physical and chemical properties								
9.1.	Information on basic physical and che	mical properties							
		Method							
	Physical state:	liquid	No information available						
	Colour:	blue	No information available						
	Odour/odour threshold:	acetic acid 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						



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	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	2.45 -2.55	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	Other information		
	-		

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

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



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Product code:	AB	AB2-OT-X** Date of o			of compilat	ion:	07 Oc	tober 2024	Versio	n:	7
			1						·		
Inhalation exposure:	N	lo informatio available	n	-		LC ₅₀		_			-
Specific	target	organ toxicit	y – single	exposur	e (STOT SE):						
Specific effects Target organ Note											e
Oral exposure:		No informa	tion availa	able	No infor	matio	n availab	ole	-		
Dermal exposure	•	No informa	tion availa	able	No infor	matio	n availab	ole	_		
Inhalation exposu	ıre:	No informa	tion availa	able	No infor	matio	n availab	ole	_		
Respirat	ory irri	tation:		No in	formation a	vailab	le				
Irritation	and c	orrosion									
	E	xposure time	. Sp	oecies	Eva	luatio	n	Method		Not	e
Skin irritation:	-		_		-			_	_		
Eye irritation:	-		-		-			-	_		
	•										
Sensitiza	ation										
Dermal exposure	: No	information	available								
Inhalation	No	information	availahle								
exposure:	INC	illolliation	available								
·											
Symptor	ns rela	ted to the ph	ysical, che	emical a	nd toxicolog	ical cl	haracteri	stics			
Oral exposure:	No	information	available								
Dermal exposure	: No	information	available								
Inhalation exposure:	No	information	available								
Eye exposure:	No	information	available								
Repeate	d dose	toxicity (sub	acute, sub	chronic,	chronic)						
		Dose	Exposure time	. Sp	ecies	Met	thod	Evaluation	ſ	lote	<u> </u>
Subacute oral	No i	information ble	No informati available		o formation ailable		ormatio vailable	No informa available	tion _		
Subacute dermal	No i	information ble	No informati available		o formation ailable		rmatio ⁄ailable	No informa available	tion -		



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Subacute inhalation	No information available	No information available	No information available	No informatio n available	No information available	-
Subchronic oral	No information available	No information available	No information available	No informatio n available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No informatio n available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic oral	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic dermal	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No informatio n available	No information available	_

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

CMR effects (carcinogenici	CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)							
Carcinogenicity:	No information available							
Mutagenicity in-vitro:	No information available							
Genotoxicity:	No information available							
Mutagenicity in-vivo:	No information available							



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	Germ cell mutagenicity:	No information available
	Reproductive toxicity:	No information available
	Summary of evaluation of the CN	MR properties: -
11.2	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	The substance/mixture does not components considered to endocrine disrupting proaccording to REACH Article 5 Commission Delegated regulati 2017/2100 or Commission Reg (EU) 2018/605 at levels of 0 higher.	have operties 57(f) or - fon (EU) gulation
11.2.2.	Other information:	
	-	

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



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Algae/aquatic plants		IC ₅₀	72 hours			information ailable		rmation lable		-	-	
Other organisms				-		-		-		-		
12.2. Persis	stenc	e and degrada	oility									
		gradation	y									
		Degradation ha	f-lives			Method			Evaluatio	n		Note
Marine water	No				o info	ormation availa	able	No inform	ation av	ailable	-	-
Fresh water	No	information available No			o info	ormation availa	able	No inform	ation av	ailable	-	-
Air	No	information available No			o info	ormation availa	lable No information		ation av	ailable	-	-
Soil	No	information av	ailable	N	o info	ormation availa	able	No inform	ation av	ailable	-	-
		lation	`				***************************************					
% Degradation No information		Time (day		Na		Method mation	NI.	Evaluatio o informatio		No inform	Note	
available							ailable		available	iatio		
12.3. Bioac	cum	ulative potentia	ıl									
Partit	ion c	oefficient: n-oc	tanol/v	vater	(log k	(ow):						
Value	Co	ncentration	рН	C	°C	Method		Evalua	ation		No	te
_	No availa	information able	-	<u>-</u>		No information	on	No inform available	ation	-		
	ncer	ntration factor (BCF)									
Value		Species		., :		1ethod 		Evaluati			No	
No informatio available	n	No inform available	ation	No ir availa		nation		o informatio railable	on	No info		tion



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Produ	ct code:	AB2-OT-X**	Date	of compilati	on: 07 Octo	ober 2024 Versi	on: 7
	Value	Dose	Exposure time	Species	Method	Evaluation	Note
Chroni	ic toxicity on fi	sh LC ₅₀	No information available	No information available	No information available	No information available	-
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No information available	No information available	No information available	No information available	-
12.4.	Mobility in s	soil					
	Known or p	redicted distribut	ion in environm	nental compart	ments:		
	No informa	tion available					
	Surface tens	sion:					
	Value	°C	Concentra	ition	Method		Note
	No information	No information	No informa	tion No inf	ormation avail	able -	

available

Adsor	ption ,	/ desoi	rption

available

available

Transport	A/D coefficient Henry's constant		log Kow Fyaporation rate		Method	Note
Soil-water	No inf available	formation	No information available	No information available	No information available	-
Water-air	No inf available	formation	No information available	No information available	No information available	-
Soil-air	No inf available	formation	No information available	No information available	No information available	-

12.5. Results of PBT and vPvB assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.6. Endocrine disrupting properties



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	according	to REACH Article 57	ot contain components considere f) or Commission Delegated regu vels of 0.1% or higher.		
12.7.	Other adv	verse effects			
	No inform	nation available			
SECTIO	N 13. Disp	oosal considerations			
13.1.	Waste t	reatment methods			
42.4.4		. (5			
13.1.1.		t/Packaging disposal:	gal person authorized by the Min	istry of Environmental and Nati	uro
	Protect		gai person authorized by the Mili	istry of Environmental and Natt	ле
13.1.2.	Waste o	codes/waste designat	ons according to Law:		
	No info	rmation available			
	ii.				
13.1.3.		reatment – relevant ir	nformation:		
	No info	rmation available			
13.1.4.	Cowood	disposal relevant in	oformation:		
15.1.4.		e disposal – relevant ir	of into the sewage system.		
	waste i	nust not be disposed	or into the sewage system.		
13.1.5.	Other d	lisposal recommendat	ions:		
	Do not authorize the pac	dispose of the producted by the ministry in	ct's remains into the sewage systo charge. Do not dispose of the pa ors authorized by the ministry in o	ackaging into the sewage syster	m. Submit
13.1.6.	Relevar	nt Community provision	ons:		
	-				
SECTIO		nsport information			
	•	ting/shipment by road		1	
UN num		na namo:	Not subject to transport regu	Iations.	
	per shippir ort hazard o		-		
Packing					
Lacking	group.				



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Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Transporti	ng/shipment by rail	(RID)					
UN number:		No	t subject to transp	ort regu	lations.		
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Inland wat	erway transport (AD	N)					
UN number:		No	t subject to transp	ort regu	lations.		
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Transporti	ng/shipment by sea	(IMDG)				
UN number:		No	t subject to transp	ort regu	lations.		
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Transporti	ng/shipment by air (ICAO-1	TI/IATA-DGR)				
UN number:		No	t subject to transp	ort regu	lations.		
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					

SECTION 15. Regulatory information

Further information:

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



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

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



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

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Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
Product code:	AB2-OT-X**	Date of compilation:	07 October 2024	Version:	7

16.2.	Abbreviations and acronyms	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classifi	cation	Classification procedure			
-		-			
16.5.	Relevant H statements (num	ber and full text)			
	H: 226	Flamamble liquid and vapour.			
	314	Causes severe skin burns and eye damage.			
16.6.	Training advice:	-			
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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

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

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

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard statements*:					
	- EUH031					
2.1.2.	Additional information					
	-					
*For full	text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification: BIOSCHIFF REAGENT					
	Identification number: -					
	Authorization number:	-				



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

	Hazard pictograms:	-			
	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 Prop	erties:			
	No known endocrine disrupt	ting properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.				

SECTION 3. Co	mposition/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

SECTIO	SECTION 4. First aid measures				
4.1	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			



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

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

	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 effe	ects, 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	al attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures					
5.1	Extinguishing media					
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam				
	Unsuitable extinguishing media:	Water jet				
5.2	Special hazards arising from the substance or mixture					
	Hazardous combustion products: 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	nt with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures					
6.1	Personal precautions, protective	e equipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment: Use personal protective equipment (see Section 8).					
	Accident prevention methods:	Evacuate members of all non-essential personnel and those member 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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Trading name:		BIOSCHIFF REAGENT					
Product code:	BS-OT-X**	Date of compilation:	17 Jan 2024	Version:	5		

6.1.2.	For emergency responders	For emergency responders:				
	Use protective equipment; (see Section 8).	in case of inadequate ventilation use adequate airways protective equipment				
6.2	Environmental precautions					
	Do not dispose of in sewage Protection and Rescue Dire	ge, drainage system and waterways. In case of large spillage contact National ectorate (NPRD) on 112.				
6.3	Methods and material for	containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:					
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					
	See Section 7 for information on safe handling. See Section 8 for information on personal protective equipment. See Section 13 for disposal information.					

SECTIO	ON 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms.		
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		-		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. The	noroughly wa	ash hands after work and before eating.		
7.2	Conditions for safe storage, including any incor	mpatibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.			
	Packaging materials:	Manufactu containers	urer's original packaging. Avoid metal :.		



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Trading name:		BIOSCHIFF REA	GENT		
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	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	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:	-

8.1 Control p	arameters							
·						cposure limit		
Substance	•	CA	S No	values/s	hort to	erm values	Biological limit values	
				ppm		mg/m³		
sodium metabisulf	ite	7681-57	-4	-/-		5/-	No i	nformation available
	:							
Substance name:	-							
EC No:	-	CAS No	:	-				
DNEL								
				Industria	al			
Route of	Acı	ıte	Acute Chronic			Chronic		
exposure:	effect	local	al effect systemic effec		effect local		effect systemic	
Oral	1		-		-			-
Inhalation	-		-		-			-
Dermal	-		-		-			-
Critical physical pa	rameters: s	solubility,	flamma	bility, corrosivit	y:	_		
				Consum	er	·		
Route of	Acı	ute		Acute		Chronic		Chronic
exposure:	effect	local	effe	ct systemic		effect local		effect systemic
Oral	-		1		-			-
Inhalation	-		-		-			-
Dermal	-		-		-			-
PNEC								



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

measures to prevent exposure:



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

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

9	SECTION	N 10. Stability and reactivity	
-	10.1	Reactivity:	No information available



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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:	Strong oxidants (acids).
10.6	Hazardous decomposition products:	Sulfur dioxide, sodium oxide.

11.1 Inf	ormation on toxi	cological effects				
Ac	ute toxicity:					
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Expo	osure time	Results
Oral:	OECD Test Guideline 401	rat (sodium metabisulphite) mouse (C.I. Basic Red 9)	LD ₅₀	-		1.540 mg/kg (sodium metabisulphite) 5.000 mg/kg (C.I. Basic Red 9)
Dermal:	OECD Test Guideline 402	rat	No information available	-		>2.000 mg/kg (sodium metabisulphite)
Inhalation:	OECD Test Guideline 403	rat	No information available	4h		>5.5 mg/l (sodium metabisulphite)
Ç n	osific target erga	n toxicity – single exp	vacura (STOT SE):			
зþ	2 3	pecific effects		arget organ		Note
Oral:	No information	•		nation availa		Note
Dermal:	No information			nation availa		
Inhalation:	No information			nation availa		
As	piration hazard:	No	o information avail	able.		
Irri	itation and corros	sion				
		xposure time	Species	Evaluati on	Method	Note
Skin corrosion/irr	ritation:	-		-	_	-
Serious eye damage/irrit	tation	-		-	-	-



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Trading name:		AGENT			
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Sensitiz	zation					
Skin sensitization	n: N	lo information avail	able			
Respiratory sensi	tization: N	lo information avail	able			
Sympto	oms related to	the physical, chemi	cal and toxicolo	gical characteris	tics	
Oral exposure:		use gastrointestinal f concentration may			minal pains and cra	mps; higher
Dermal exposure	:: May cau	use skin irritation.				
Inhalation expos	ure: exposur		y sensitive pers	-	oncentration, prolong sm may occur, as we	_
Eye exposure:	May cau	use eye irritation.				
Repeat	ed dose toxicit	y (subacute, subchr	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No informa	tion No information available	No information available	No information available	No information available	-
Subacute dermal	No informa	tion No information available	No information available	No information available	No information available	-
Subacute inhalation	No informa	tion No information available	No information available	No information available	No information available	-
Subchronic oral	No informa	tion No information available	No information available	No information available	No information available	-
Subchronic dermal	No informa	tion No information available	No information available	No information available	No information available	-
Subchronic inhalation	No informa	tion No information available	No information available	No information available	No information available	-
Chronic oral	No informa	tion No information available	No information available	No information available	No information available	-
Chronic dermal	No informa	tion No information available	No information available	No information available	No information available	-



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Chronic inhalation		o information ailable	No information available	No information available	No information available	No information available	n -	
Sı	pecific tar	get organ toxici	ty – repeated e	exposure (STOT	「RE):			
· · · · · · · · · · · · · · · · · · ·	•	3 3	Specific effe		Target	organ	Note	
Subacute o	ral	No informa	tion available		No informa available			
Subacute d	ermal	No informa	tion available		No informa available	tion -		
Subacute ir	nhalation	No informa	tion available		No informa available	tion -		
Subchronic	oral	No informa	tion available		No informa available	tion -		
Subchronic	dermal	No informa	tion available		No informa available	tion -		
Subchronic	inhalatio	n No informa	nation available		No informa available	tion -		
Chronic ora	al	No informa	tion available		No informa available	tion -		
Chronic de	rmal	No informa	tion available		No informa available	tion -		
Chronic inh	alation	No informa	tion available		No informa available	tion -		
С	MR effect:	s (carcinogenici	ty; mutagenicit	:v; reproductive	e toxicity)			
	arcinogen		<u>,, 3</u>	1	ation available			
		ty in vitro:		No inform	No information available			
G	enotoxicit	:y:		No inform	No information available			
	lutagenici			No inform	No information available			
G	erm cell n	nutagenicity:		No inform	No information available			
R	Reproductive toxicity:			No inform	ation available			
	ummary roperties:	of evaluation	of the CN	1R No inform	ation available			
11.2 In	nformation	n on other hazaı	ds:					
11.2.1. Eı	ndocrine o	disrupting prope	erties:					



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	No known endocrine disrupting properties that affect human health.
11.2.2.	Other information:
	-

SECTION 12. Ecological information						
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	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 ₅₀	48 hours	Daphnia magna (sodium metabisulphite)	No information available	89 mg/l (sodium metabisulphite)	-
Algae/aquatic plants	IC ₅₀	4 days	Green algae (sodium metabisulphite)	No information available	43.8 mg/l (sodium metabisulphite)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2	Persistence and degradability							
	Abioti	Abiotic degradation						
		Degradation half-lives	Method	Evaluation	Note			
Marine water		No information available	No information available	No information available	-			



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Fresh water	No inforr	nation availa	ıble	No in	formation ble	No informat available	ion -	-		
Air	No inform	nation availa	ıble	No in	formation ble	No informat available	ion -	-		
Soil	No inforr	nation availa	ıble	No in availa	formation ble	No informat available	ion -	-		
Biode	egradation									
% Degradati		Time (days))		Method	Evaluatio	n		Note	
No information available	n No	inform lable		No in	formation able	No informat available		No inf availal	formation ble	
	cumulative	•								
		artition coef	ficient ((log Ko	ow)					
Value	Concentrati n	о рН	рН		Method	Evaluation		Note		
		-	-	-	-	-		-		
Value	ncentration	Species)		Method	Evaluatio	on		Note	
		inform	rmation No ir		formation	No information available		-	Note	
Chro	nic ecotoxic	ity							,	
Value		Dose		sure ne	Species	Method	Evalua	ation	Note	
Chronic toxicity on fish			No inforr n ava		No information available	No information available	No inform on availal		_	



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Trading name:				BIOSCHIFF	REAGEN	T		
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Chronic toxicity on crustacea EC ₅₀ (<i>Daphnia</i>)		EC ₅₀	intormatio	No information available	No informa available	i on	-	
12.4	Mobility in	soil						
	Known or	predicted distribut	tion in environm	ental compartn	nents:			
	No inform	ation available						
	Surface ter	nsion:						
	Value	°C	Concentrat	ion	Method		Note	
	No informatio available	No n information available	No informat available	ion No infor available		-		
Transpor	t A,	n / desorption /D coefficient nry's constant	log Kow	Evaporation	ı rate	Method	Note	
Soil-wate	No	information	No information No information available available		1	o information vailable	_	
Water-ai	r No availal	information ole	No informatio available	n No informat		o information vailable	-	
Soil-air	No availal	information ble	No informatio available	n No informat available			-	
12.5.		PBT and vPvB asse		the criterie for F	DT or vo	,D		
	Substance	(s) in the mixture o	JO(es) Hot meet	the Chteria for F	PDI OI VPV	/D		
12.6.	Endocrine	disrupting proper	ties					
	The substa	nce/mixture does to REACH Article 5 (EU) 2018/605 at	not contain con 57(f) or Commis	sion Delegated				
12.7.	Other adve	erse effects						
	No information available							



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13.1	Waste treatment methods			
13.1.1.	Product/Packaging disposal:			
	Submit for disposal to the legal Protection.	person authorized by the Ministry of Environmental and Nature		
13.1.2.	Waste codes/waste designation	ns according to Law:		
	Packaging that contains residua	al hazardous substances or is contaminated with hazardous substances		
13.1.3.	Waste treatment – relevant info	ormation:		
	No information available			
13.1.4.	Sewage disposal – relevant info	rmation:		
	Waste must not be disposed of	into the sewage system.		
13.1.5.	Other disposal recommendation	ns:		
	authorized by the ministry in ch	s remains into the sewage system. Submit the remains to the collectors narge. Do not dispose of the packaging into the sewage system. Submit authorized by the ministry in charge.		
13.1.6.	Relevant Community provisions	5:		
	-			
SECTIO	N 14. Transport information			
	Transporting/shipment by road	(ADR)		
UN num	ber:	Not subject to transport regulations		
UN prop	er shipping name:	-		
Transpo	rt hazard class(es):	-		
Packing	group:	-		
Environr	nentally hazardous:	-		
Special precautions for user:		-		
Transporting/shipment by rail		RID)		
UN num	ber:	Not subject to transport regulations		
UN prop	per shipping name:	-		
Transpo	rt hazard class(es):	-		
Packing	group:	-		
Environr	nentally hazardous:	_		



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Special precautions for user:	-
Inland waterway transport (ADN	I)
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:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	CAO-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: -	

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



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	None	
15.2	Chemical safety assessme	ent
	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
	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-
		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);
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;

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



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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classific	catior	1	Classification procedure		
_			-		
16.5.	Rel	evant H statements (num	ber and full text)		
		302	Harmful if swallowed.		
	314 H 318		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.	Tra	ining advice:	-		
16.7. Further information:			** "X" in the product code marks different volumes (different packagings of the product)		
		ther information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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

SECTI	ON 1: Identification of	the substanc	e/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	HCL REAGE	NT, P.A.S.		
	Chemical name:	-			
	Catalogue number:	HCLP-OT-X	HCLP-OT-X**		
1.2.	Relevant identified us	es of the subs	tance or mi	xture and uses advised against	
	Uses:		For use w	ith special staining kits in histopathology.	
	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	Details of the supplier of the safety data sheet			
	Supplier: Bi		ioGnost Ltd.		
	Address:	N	Medjugorska 59, Zagreb		
	Telephone number:	+	+385 1 2409997		
	Fax no.:	+	+385 1 2404039		
	e-mail of competent p	person: <u>m</u>	msds@biognost.hr		
	National contact: -				
1.4.	Emergency telephone number				
	National Protection and Rescue Dire		ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	CTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regul	lation (EC) No 12	.72/2008 (CLP)			
	Hazard class and categor	ry code:	Hazard statements*:			
	Not identified as hazardous subs	stance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-si	tatements: 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: Product code: HCLP-OT-X**		HCL REAGENT, P.A.S.			
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Signal wo	ord:	-			
Hazard s	tatements:	-			
Precautio	onary statements:	-			
Supplem (EU):	etal hazard informatio	n -			

2.3. Other hazards

Endocrine Disrupting Properties:

No known endocrine disrupting properties.

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	

SECTI	SECTION 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 aider:		Treat symptomatically.		
4.2.	Most important symptoms and effects, both acute and delayed				
	Following inhalation: No		nformation available		
	Following skin contact:	No i	information available		
	Following eye contact: No		nformation available		



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

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

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



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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	-				
6.4.	Reference to other sections					
	See Section 7 for information about secure handling.					
	See Section 8 for information about personal protective equipment.					
	See Section 13 for information	on about containment.				

SECTIO	ON 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust 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 storage rooms, and away from sources of heat, sunlight, and other incompatible substances.				
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).				
7.3.	Specific end use(s)					



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					1 age 3 01 10	
Trading name: HCL REAGENT, P.A.S.						
Product cod	e: HCLP-OT-X*	* Date of co	mpilation:	14 November 2022	Version: 4	
Reco	ommendations:		-			
Industrial sector specific solutions:		olutions:	-			

SECTION 8. Exposure controls/personal protection									
8.1. Control parameters									
Substance		CAS No va			cupational exposure limit alues/short term values		Bio	Biological limit values	
				1	ppm	mg/m³		3	
-		-			-	-	No infor	mation available	
					'		•		
Substance - name:									
EC No: -		CAS No:	-						
DNEL									
				Inc	dustrial				
Route of exposure:		Acute ect local	effe	Acute	_	Chronic effect local		Chronic effect systemic	
Oral -			-			-		-	
Inhalation -			-			-		-	
Dermal	-		-			-		-	
Critical physical parar	neters: s	olubility, fla	mmabilit	y, cor	rosivity:	-			
				Co	nsumer				
Route of exposure:		Acute ect local	effe	Acute		Chroneffect I		Chronic effect systemic	
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		1			_		-	
PNEC									
Environmental protec	tion tar	get			PNEC				
Fresh water				No information available					
Freshwater sediments				No information available					
Marine water				No information available					
Marine sediments				No information available					
Food chain				No information available					
Microorganisms in sewage treatment				No information available					
Soil (agricultural)				No information available					



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Air			No information available				
8.2.	Exposure controls						
8.2.1.	Appropriate engineering controls						
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prescribe 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 prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equi	oment					
8.2.2.1.	Eye and face protection:	n: Safety glasses that stick to face (preventing splashing) (E visor.					
8.2.2.2.	Skin protection						
8.2.2.2.			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				
	I ITHAT CVIN NICITACTION		Break through time: >480 min ar antistatic clothing made of natural fibers (such as cotton) with long eves (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	Protec filter fo	etive full face mask (EN 136) or half mask (EN 140) equipped with a cor organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No inf	ormation available				
8.2.3.	Environmental exposure	controls					
	Substance/mixture relate measures to prevent exp		See Section 6				
	Structural measures to preserve:	revent	Use modern equipment.				
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.				
	Technical measures to prevent exposure:		See Section 6				



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

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

SECTION	11. Toxi	icologica	I inforr	nation

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



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Acute toxi	city:					
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	LD ₅₀ /LC ₅₀ or Exposure t		Results
Oral exposure:	No information available	-	LD ₅₀	-		-
Dermal exposure:	No information available	-	LD ₅₀	-		-
Inhalation exposure:	No information available	-	LC ₅₀	-		-
Specific ta	rget organ toxicity – si	ingle exposure (S	TOT SE):			
		ic effects	Target	organ		Note
Oral exposure:	No information		No information		-	
Dermal exposure:	No information	available	No informatio	n available	-	
Inhalation exposure	No information	:l_l_l_				
ililiaiation exposur	e: No information	avaliable	NO IIIIOIIIIauc	ni avallable	-	
•				on available		
Aspiration			mation available	iii avallable		
Aspiration				in available		
Aspiration	hazard:			Method		Note
Aspiration	hazard: and corrosion:	No inform	mation available			Note
Aspiration	hazard: Ind corrosion: Exposure time	No information of the second o	mation available Evaluation	Method		Note
Aspiration Irritation a Skin irritation: Eye irritation:	hazard: Ind corrosion: Exposure time	No information Species	mation available Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati	hazard: Ind corrosion: Exposure time	No information Species	mation available Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure:	hazard: Ind corrosion: Exposure time	Species -	mation available Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati	hazard: Ind corrosion: Exposure time	Species	mation available Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure:	hazard: Ind corrosion: Exposure time On No information avail	Species lable	Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure: Symptoms	hazard: Ind corrosion: Exposure time - - On No information avail No information avail	Species lable lable	Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure:	hazard: Ind corrosion: Exposure time On No information avail No information avail	Species	Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure: Symptoms Oral exposure:	hazard: Ind corrosion: Exposure time on No information avail No information avail s related to the physica No information avail No information avail	Species	Evaluation -	Method 		Note



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Trading name:		HCL REAGENT, P.A.S.	age c ee
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	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	bacute oral No information available No available		No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	–
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	–

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



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Trading name:		HCL REAG	ENT, P.A.S.	
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Chronic	inhalation	No informat	ion available	No information available	-			
	CMR effects	(carcinogenicity	; mutagenicity; repr	aductive toxicity)				
	Carcinogenic			able data, the classification criteria a	are not met.			
	Mutagenicity			able data, the classification criteria a				
	Genotoxicity:			able data, the classification criteria a				
	Mutagenicity	ı in-vivo:	Based on availa	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
	Germ cell mu	utagenicity:	Based on availa					
	Reproductive	e toxicity:	Based on available data, the classification criteria are not met.					
	Summary of	evaluation of th	e CMR properties:	-				
	Ē							
11.2.	Information of	on other hazard	s:					
11.2.1.	Endocrine dis	srupting proper	ties:					
	No known er	ndocrine disrupt	ing properties that	affect human health.				
11.2.2.	Other inform	ation:						
	_							

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



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Tradin	ng nam	ne: HCL REAGENT, P.A.S.									
Product code: HCLP-OT-X**			Dat	Date of compilation: 14 November 2022 Version:					ion: 4		
Algae/aquatic p		plants	IC ₅₀	72 hours		No information available			No information available		-
Other	organis	ms	-	-		-	-		-	-	-
400											
12.2.			and degrada adation	bility							
	ADIO		gradation ha	lf-lives		Method		Ev	valuation		Note
Marine water	è		formation av		No	o information avail	able	No informa		ble	-
Fresh v	water	No in	formation av	vailable Nc		No information available		No information available		ble	-
Air		No in	formation av	mation available		No information available		No information available		ble	-
Soil		No in	formation av	ailable	No	o information avail	able	No informa	tion availa	ble	-
	Biode	egradat	ion								
% Deg	gradatio		Time (day	s)	2	Method		Evaluation		Ν	lote
No info	ormatic ole		o infor ailable	mation				No information available		No information available	
12.3.			ative potentia								
Valu			er partition of	oefficie pH		g Kow) C Method		Evaluat	ion		Note
- Valu			nformation	- -	-	No informati available	on	No informa			ivote
	Bioco	oncentra	ation factor (BCF)							
\	√alue		Speci	es		Method		Evaluation	1	1	Note

information No information

available

No information

available

No information

available

Chronic ecotoxicity

No

available

No 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	

Product o	code: H	CLP-OT-X**	Date of cor	npilation:	14 No	vember 2	.022	Versio	n: 4
	Val	D	Exposure	C			Frankrite		NJ - 4
	Value	Dose	time	Species	Met	thod	Evaluat	ion	Note
Chronic tc	oxicity on fish	LC ₅₀	information in	lo nformation vailable	No inform availab	ation i	No nformatio vailable	on -	
Chronic to crustacea	•	EC ₅₀	information in	lo nformation vailable	No inform availab	ation i	No nformatio available	on -	
12.4. N	Mobility in so	il							
К	nown or pre	dicted distributi	on in environmen	tal compart	ments:				
٨	lo informatic	n available							
S	urface tensic	on:							
	Value	°C	Concentratio	n	Metho	od		Note	<u> </u>
ir	No No information info		No information No info		ormation		-		
A	dsorption / d	desorption coefficient	log Kow	Evaporati	on rate	Metl	had		Note
	No	's constant information	No information	No inform		No inforr			
Soil-water	available		available	available		available		-	
Water-air	No available	information	No information available	No inform available	nation	No inforr available		-	
Soil-air	No available	information	No information available	No inform available	nation	No inforr available		-	
		and vPvB asses	ssment						
	lo informatio	on available							
	ndocrine dis	rupting propert	ies						
12.6. E									
	lo known en	docrine disrupti	ng properties tha	t affect the 6	environn	nent.			
N	lo known end Other adverse	·	ng properties tha	t arrect the 6	environn	nent.			



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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 considerati	ons		
13.1.	Waste treatment method	ds		
	:			
13.1.1.	Product/Packaging dispo	osal:		
	Submit for disposal to the Protection.	e legal person authorized by the Ministry of Environmental and Nature		
13.1.2.	Waste codes/waste design	gnations according to Law:		
	No information available			
13.1.3.	Waste treatment – releva			
	No information available			
13.1.4.	Sewage disposal – releva	ant information:		
	Waste must not be dispo	osed of into the sewage system.		
13.1.5.	Other disposal recomme	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 pro	ovisions:		
	-			
SECTIO	N 14. Transport informati	on		
	Transporting/shipment by	road (ADR)		
UN num	nber:	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	nber:	Not subject to transport regulations.		
UN prop	oer 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 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 (IMDG)			
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmentally hazardous:	-		
Special precautions for user:	-		
Transporting/shipment by air (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.		

SECTIO	ECTION 15. Regulatory information				
15.1.	Safety, health and en	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 code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4	

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

SECTIO	ECTION 16. Other information			
16.1.	Indication of changes:	-		
		PBT	Stable, bioaccumulative and toxic	
		vPvB	Strongly stable and strongly bioaccumulative.	
16.2.	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%	
		LC ₅₀	Lethal concentration, 50%	
		STOT-SE	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:	-		
16.4.	16.4. Classification and procedure use 1272/2008 (CLP)		e classification for mixture according to Regulation (EC)	
Classification		Classification pr	ocedure	
_	-	•		
16.5.	i. Relevant H statements (number and full text)			



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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

	H: 314 335	Causes severe skin burns and eye damage. May cause respiratory irritation.
16.6.	Training advice:	-
		** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply 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		

SECTION	ON 1: Identification of t	the substance	e/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	HEMATOX'	HEMATOXYLIN ML		
	Chemical name:	-	-		
	Catalogue number:	HEMML-O	Г-Х**		
1.2.	Relevant identified us	es of the subs	tance or m	ixture 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 advi	sed against:	uct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier	of the safety	data sheet		
	Supplier:	Supplier: Bid		oGnost Ltd.	
	Address:	М	ledjugorska 59, Zagreb		
	Telephone number:	+3	385 1 2409997		
	Fax no.:	+3	385 1 2404039		
	e-mail of competent p	person: <u>m</u>	nsds@biognost.hr		
	National contact:	-			
1.4.	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dir	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Medicai information.			1363 1 23 16 3 12	

SECTIO	SECTION 2. Hazards identification						
2.1.	Classification of the substance or	Classification of the substance or mixture					
2.1.1.	Classification according to Regul	ation (EC) No 1272/20	08 (CLP)				
	Hazard class and cate	gory code:	Hazard statements*:				
	Eye Irr. 2 H319						
2.1.2.	Additional information						
	-						
*For ful	l text of Hazard- and EU Hazard-sta	atements: 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	
	Endocrine Disrupting Proper No known endocrine disruptin Results of PBT and vPvB asse 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)				
7784-31-8/ 616-524-3/ -	-	3 – 4 %	aluminum sulfate octadecahydrate	Eye Dam. 1; H318				

SECTI	SECTION 4. First aid measures					
4.1.	Description of first aid meas	ures				
	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						
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	Self-protection of the first aider: Treat symptomatically.						
4.2.	Most important symptom	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	FION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:	Small fire - water spray, dry powder, foam, CO ₂ Large fire - water spray or alcohol-resistant foam				
	Unsuitable extinguishing media:	water jet				
5.2.	Special hazards arising from the substance or mixture					
	Hazardous combustion products:	No information available				
5.3.	Advice for firefighters					
	Do not enter fire area without pro	oper protective equipment, including respiratory protection.				
5.4.	Additional information					
	Remove sources of heat and ignit	Remove sources of heat and ignition.				
	Do not contaminate the environm	nent with extinguishing media.				

SECTIO	ECTION 6. Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel	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					
	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, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3.	Methods and material for containr	nent and cleaning up				



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Trading name:	HEMATOXYLIN ML						
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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 information	on about containment.				

SECTIO	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.		
	Measures to prevent aerosol and dust 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	or safe storage, including any incompatibilities			
	Technical measures and storage conditions:	•	tightly closed and upright set containers in a well red place.		
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep av	way from food and drink. Keep the containers closed.		
	Advices for storage equipment:	be resis	rage must be made of hard material; floors must stant to chemicals. There must be no drain that leads into sewage system. Secure proper ion.		
	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).		
7.3.	Specific end use(s)				



Soil (agricultural)

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Trading name:					HEMA	TOXYLIN ML		
Product cod	le:	HEMMI	L-OT-X**	R	Revision date:	27.03.2023.	Version: 9	9
		ndations:			-			
Indu	ustrial s	sector sp	ecific solutio	ns:	-			
SECTION 8. I				al protec	tion			
8.1. Con	trol pa	rameters	 					
Cuba	+0000		CACA	ula.		al exposure limit ort term values	Dialogical limit va	ماييم
Subs	stance		CAS N	NO		mg/m ³	Biological limit va	ilues
_			_		ppm	-	No information availa	
							140 momation availa	
Substance name:	Alun	ninium su	ılphate octa	decahydı	rate			
EC No:	233-	135-0	CAS No:	77	84-31-8			
DNEL 253-153-0		C/13 110.	' ' '	04 51 0				
					Industrial			
Route of			Acute		Acute	Chronic	Chronic	
exposure:			ect local	effe	ct systemic	effect local		
Oral		-		-		-	-	
Inhalation		-		-		-	13,4 mg/m ³	
Dermal		-	-			-	3,8 mg/kg bw/d	day
Critical physic	cal para	ameters:	solubility, fla	mmabili	ty, corrosivity:	-	<u> </u>	
					Consumer			
Route of		,	Acute		Acute	Chronic	Chronic	С
exposure:		effe	ect local	effe	ct systemic	effect local	effect syste	emic
Oral		-		-		-	-	
Inhalation		-		-		-	-	
Dermal		-		-		-	-	
PNEC					1			
Environmental protection target			PNEC					
Fresh water					No info	rmation available		
Freshwater sediments				No info	rmation available			
Marine water				No info	rmation available			
Marine sedim	nents				No info	rmation available		
Food chain					No info	rmation available		
Microorganisms in sewage treatment					No info	No information available		

No information available



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Trading name:		HEMATOXYLIN ML					
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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 prescribe 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 prevent exposure:		Secure proper workspace ventilation in order to keep concentratio levels in air below permitted levels.			
8.2.2.	Personal protection equi	pment	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					
	Chem 374. Hand protection:		mical 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:		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 ir	formation available			
8.2.3.	Environmental exposure	control	s			
	Substance/mixture relate measures to prevent exp		See Section 6			
	Structural measures to prescribe exposure:	revent	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace. Keep away from drains, surface and ground water.			
	Technical measures to pr exposure:	event	See Section 6			

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



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

SECTIO	ECTION 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:				



Oral exposure:

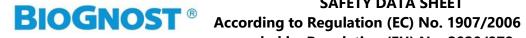
Dermal exposure:

No information available

No information available

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Trading name:		HEMA	TOXYLIN	ML	
Product code:	HEMML-OT-X**	Revision date:	27.03.2	023.	Version: 9
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or	Exposu time	RESILITS
Oral exposure:	anhydrous (ECHA)	rabbit	ATE _{mixture}		>2.000-<5.000 mg/kg (aluminium sulphate octadecahydrate)
Dermal exposure:	anhydrous (ECHA)	rat	LD ₅₀	-	>5.000mg/kg (aluminium sulphate octadecahydrate)
Inhalation exposure:	No information available	-	LC ₅₀	-	-
Specific ta	urget organ toxicity – sing	lle exposure (STOT S	E):		
	Specific	effects	Target organ		Note
Oral exposure: No information avai		ilable	No information available		-
Dermal exposure:	No information ava	nilable	No information available		-
Inhalation exposure	e: No information ava	ilable	No information available		-
Respirator	ry irritation:	No information av	vailable		
irritation a	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	–	_	-	
Eye irritation:	-	-	-	- (Causes serious eye damage
Sensitizati	on				
Dermal exposure:	No information availabl	e			
		e			



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

Eye exposure:		Causes serio	us eye damage	9				
Repeat	ed dose	e toxicity (sul	oacute, subchr	onic, chronic)				
		Dose	Exposure time	Species	Method	Evaluatio	n	Note
Subacute oral	No i availa	nformation ble	No information available	No information available	No information available	No inforn available	nation	-
Subacute dermal	No i availa	nformation ble	No information available	No information available	No information available	No inforn available	nation	-
Subacute inhalation	No i availa	nformation ble	No information available	No information available	No information available	No inforn available	nation	-
Subchronic oral	No i availa	nformation ble	No information available	No information available	No information available	No information available		-
Subchronic dermal	No i availa	nformation ble	No information available	No information available	No information available	No information available		-
Subchronic inhalation	No i availa	nformation ble	No information available	No information available	No information available	No inforn available	nation	-
Chronic oral	No i availa	information ble	No information available	No information available	No information available	No information available		-
Chronic dermal	No i availa	information ble	No information available	No information available	No information available	No inforn available	nation	-
Chronic inhalation	No i availa	information ble	No information available	No information available	No information available	No inforn available	nation	-
Specific	c target	organ toxici	ty – repeated e	exposure (STO	T RE):			
			Specific effect	:S	Target or	<u> </u>		Note
Subacute oral			ition available		No information		-	
Subacute derma	1	No informa	tion available		No information	available	-	
Subacute inhalat	tion	No informa	ition available		No information	available	-	
Subchronic oral		No informa	ition available		No information	available	-	



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

Subchro	nic dermal	No information avail	able	No information available	-		
Subchro	nic inhalation	No information avail	able	No information available	-		
Chronic	oral	No information avail	able	No information available	-		
Chronic	dermal	No information avail	able	No information available	-		
Chronic i	nhalation	No information avail	able	No information available	-		
	CMR effects (c	carcinogenicity, mutage	enicity, reproductiv	ve toxicity)			
	Carcinogenicit	ty:	No information av	vailable			
	Mutagenicity i	in-vitro:	No information available				
	Genotoxicity:		No information av	vailable			
	Mutagenicity i	in-vivo:	No information av	vailable			
	Germ cell mut	agenicity:	No information available				
	Reproductive	toxicity:	No information available				
	Summary of e	valuation of the CMR p	properties:	-			
11.2.	Information o	n other hazards:					
11.2.1.	Endocrine disr	rupting properties:					
	No known properties tha	endocrine disrupti t affect human health.	ng				
11.2.2.	Other informa	tion:	<u> </u>				
	_						

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



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Microorganisms	LC ₅₀	72 hours	-	-	-	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	_
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	_
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	EC ₅₀	180 min	microorganisms	ЕСНА	>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					

12.3. Bioaccumulative potential

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

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



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V	'alue		Species		Met	hod	Eva	luation	Note		te
No info availabl	rmation e	No ava	o information vailable		No informavailable		No information available			No information available	
	Chronic	ecoto	xicity								
	Value		Dose		osure me	Species	Meth	od	Eva	aluation	Note
Chronic toxicity on fish		LC ₅₀	No inforr availa	nation i	No nformat on available	No inform available	No information No informa available available			-	
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No inforr availa	nation i	No nformat on available	available availa		No info	ormation le	-	
12.4.		or pre	dicted distribut	ion in e	nvironme	ntal com	partments:				
	No infor		n available								
	Value		°C		Concen	tration	Meth	od		Note	
	No informa available		No inform available	nation	No infor		No inform available	ation	-	Note	
	Adsorpt	ion / o	desorption								
Transpo	ort		coefficient 's constant	lo	g Kow	Evapo	ration rate	М	lethod		Note
Soil-wa	ter No	ilable	information	No in availa	formation ble	No info	ormation le		No information available		
Water-a	air No ava	ilable	information	No in availa	formation ble	No info	ormation lle	No inf	ormatior ole	۱ -	
soil-air available			information			No info	ormation	No inf	ormation) <u> </u>	



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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:
	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:
13.1.0.	-
SECTION	N 14 Transport information
SECTIO	N 14. Transport information Transporting (shipment by read (ADD)
	Transporting/shipment by road (ADR)



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



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SECTIO	ON 15. Regulatory informa	ation				
15.1.	Safety, health and environ	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations Authorization and/or restrictions of use					
	Authorizations: -					
	Restrictions:	-				
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);				
	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessme	ent				
	None					

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



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16.2.	Abbreviations and acronym	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:			
16.4.	Classification and procedure 1272/2008 (CLP)	e used to derive the classification for mixture according to Regulation (EC)		
Classifi	cation	Classification procedure		
–		-		
16.5.	Relevant H statements (num	ber and full text)		
	H: 318	Causes serious eye damage.		
	319	Causes serious eye irritation.		
16.6.	Training advice:	-		
16.7.	** "X" in the product code marks different volumes (different packagings of the product) Further 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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Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

SECTION	ON 1 IDENTIFICATION	OF THE SUBS	STANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier	,			
	Trading name:	PERIODIC A	PERIODIC ACID, 0.8 % SOLUTION		
	Chemical name:	-			
	Catalogue number:	PK08-OT-X	* *		
1.2.	2. Relevant identified uses of the substance or mixture and uses advised against		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:	Ві	ioGnost Ltd.		
	Address: M		1edjugorska	59, Zagreb	
	Telephone number: +3		385 1 2409997		
	Fax no.:		-385 1 2404039		
	e-mail of competent p	erson: <u>m</u>	msds@biognost.hr		
	National contact: -				
1.4.	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dir	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 2 HAZARDS INFORMATION		
2.1.	Classification of the substance or mixture		
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)		
	Hazard class and category code: Hazard statements*:		
	Not identified as hazardous substance		-
2.1.2.	Additional information		
	-		
*For fu	ll text of Hazard- and EU Hazard-s	statements: see S	Section 16
2.2.	Classification according to EC D	irective Nr. 1272	/2008 CLP)
	Product identification:	PERIODIC AC	CID, 0.8 % SOLUTION
	Identification number:	-	
	Authorization no.:	-	
	Hazard pictograms:	-	



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

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

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



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

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

SECTIO	ON 6 ACCIDENTAL RELEASE MEASUR	ES			
6.1.	Personal precautions, protective equ	ipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment: Use personal protective equipment (see Section 8).				
	Accident prevention methods: Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containme	nt and cleaning up			



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

SECTIO	ON 7 HANDLING AN STORAGE			
7.1.	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.		
	Measures to prevent aerosol and dust 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 storage rooms, and away from sources of heat, sunlight, and other incompatible substances.		
	Packaging materials:	Manufacturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).		
7.3.	Specific end use(s)			



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Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8 EX			TROLS/PER	SONAL	PROT	ECTION			
8.1. Control parameters Substance		CAS No			Occupational exposure limit values/short term values			Biological limit values	
2 2.02 1300					ppm	mg/m³		J	
				-	-	No info	rmation available		
Substance name:	-								
EC No:	-		CAS No:	_					
DNEL									
					Inc	dustrial			
Route of exposure:			Acute ect local	Acute effect syst			Chronic effect local		Chronic effect systemic
Oral		-		-			-		-
Inhalation		-	-			-		-	
Dermal	Dermal			-		-			
Critical physic	Critical physical parameters: solubility, flammability, corrosivity:								
					Co	nsumer			
Route of exposure:				Chronic effect local		Chronic effect systemic			
Oral		-		-			-		-
Inhalation		-		-	- -		-		-
Dermal		-		-			-		-
PNEC									
Environmental protection target				PNEC					
Fresh water				No information available					
Freshwater sediments				No information available					
Marine water				No information available					
Marine sediments				No information available					
Food chain				No information available					
Microorganisms in sewage treatment				No information available					
Soil (agricultu	Soil (agricultural)				No information available				



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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.				
	exposure: Organisational measures to		No information available Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equipment						
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	2. Skin protection						
			tective gloves must be according to the EU Directive 2016/425/EEC and ndard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.					
8.2.2.4.	Thermal hazards:	No information available					
8.2.3.	Environmental exposure	controls					
	Substance/mixture related measures to prevent exposure:		See Section 6				
	Structural measures to prevent exposure:		Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to prevent exposure:		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
Lower and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

SECTIO	SECTION 10 STABILITY AND REACTIVITY					
10.1.	Reactivity:	See subsections 10.3 through 10.5.				
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 toxic	city:					
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure	e time	Results
Oral exposure:	No information available	-	LD ₅₀	-		-
Dermal exposure:	No information available	-	LD ₅₀	-		-
Inhalation exposure:	No information available	-	LC ₅₀ -	-		-
Specific ta	rget organ toxicity – sii	nale evnosure (STOT SEI:			
эреспіс та	3 3	c effects		: organ		Note
Oral exposure: No information			No information		-	
Dermal exposure:	No information a	available	No information	on available	-	
Inhalation exposure	: No information a	available	No information	on available	-	
Respirator	y irritation:	No info	rmation available			
Irritation a	nd corrosion					
	Exposure time	Species	Evaluation	Method		Note
Skin irritation:	-	rabbit	-	-	_	
Eye irritation:	-	rabbit	-	-	_	
Sensitizatio	on					
Dermal exposure:	No information availa	able				
Inhalation exposure:	No information availa	able				
1						
Symptoms	related to the physica	l, chemical and	toxicological chara	cteristics		
Oral exposure:	sensation; higher l	evels of concer	of mucosa, tingling ntration may cause uses coughing, diff	nausea, abdo	ominal pa	ain and vomiting
	concentration may	y cause suffocat	tion.	ects are not likely. Long-term exposure		



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Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION					
Product code: PK08-0	OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

Subchronic inhalation No information available No	information available - information available -
	information available -
Chronic oral No information available No	information available -
Chronic dermal No information available No	information available -
Chronic inhalation No information available No	information available -

Carcinogenicity:	Current studies on test animals did not indicate carcinogenic effects.
Mutagenicity in-vitro:	Current in vitro tests did not indicate mutagenic effects.
Genotoxicity:	No information available
Mutagenicity in-vivo:	Current in vivo tests did not indicate mutagenic effects.
Germ cell mutagenicity:	No information available
Reproductive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.

Summary of evaluation of the CMR properties:

11.2 Information on other hazards:

11.2.1. Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2. Other information:

-

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



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

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

12.2. Persistence and degradability

Abiotic degradation

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

Biodeara	

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

12.3.	Bioa	Bioaccumulative potential					
	Part	ition coefficient: n-c	octanol/wa	ter (log K	ow):		
Valu	ie	Concentration	рН	°C	Method	Evaluation	Note



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Trading name:			PERIODIC ACID, 0.8 % SOLUTION										
Produc	ct cod	e:	PK08-	OT-X**		Date	of co	mpilatio	on:	21 Dec	2022	Versio	on: 4
-		No availal	inform ble	ation -		_	No info	ormation le		o inform vailable	ation	-	
	-	oncent	ration f	factor (BCF)									
Value No information No available available		Species inform ble				nation No inf		Evaluation No information available		Note No information available			
	Chro	nic eco	otoxicit	y									
	Valu	ue		Dose	Exposure time		Species		Me	ethod Eva		luation	Note
Chronic	c toxici	ty on f	fish	LC ₅₀	No information available			nformation info		mation able	No info	ormation le	-
	hronic toxicity on rustacea (<i>Daphnia</i>)			EC ₅₀	No information available		No inforr availa	mation able	No inforr availa	mation able	No info	ormation le	-
12.4.	Mob	ility in	soil										
	Knov	vn or p	oredicte	ed distributi	on in e	environm	ental c	compart	ments:				
			ition av	ailable									
		ce ten	sion:					I					
information inf			°C ormation ailable	No information available						_	N	ote	
	Adso	rption	/ deso	rption									
Transpo	ort	-	/D coef nry's co		lo	og Kow	Ε\	/aporatio	on rate		Method		Note
Soil-wa	ater :	No availal		formation	No ir availa	nformatio able		o inform ailable	ation	n No information		on -	



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Tradin	g name	:		PERIO	DIC ACID, 0.8	% S		age 15 of	
Produc	ct code:	•	PK08-OT-X**	Date of	compilation:	21	Dec 2022	Version:	4
Water-a	air	lo vailab	information ole	No information available	No information available	ו	No information available	-	
Soil-air		lo vailab	information ole	No information available	No information available	1	No information available	-	
12.5.			PBT and vPvB asses						
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.								
12.6.	Endoci	rine c	disrupting properti	es					
	The su	ıbstar ding t	nce/mixture does r o REACH Article 5 (EU) 2018/605 at l	not contain compo 7(f) or Commission	n Delegated regu				
12.7.	Other	advei	rse effects						
	No inf	orma	tion available						
SECTIO	N 13 D	ISPO	SAL CONSIDERA	rions					
13.1.	Wast	te tre	atment methods						
13.1.1.			Packaging disposa				- ·		
		mit fo ectior	or disposal to the long.	egal person autho	rized by the Min	istry	of Environmenta	l and Natur	e
13.1.2.	Wast	te co	des/waste designa	tions according to	o Law:				
13.1.2.			nation available	decoraing to	, 2411.				
13.1.3.	Wast	te tre	atment – relevant	information:					
	No ii	nforn	nation available						
13.1.4.	Sewa	age d	isposal – relevant	information:					
	Wast	te mu	ust not be dispose	d of into the sewa	ge system.				
13.1.5.	Othe	er disp	posal recommend	ations:					



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

Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors

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

		charge. Do not dispose of the packaging into the sewage system. Submit s authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community provision	ns:
	-	
SECTION	I 14 TRANSPORT INFORMATION	N
	Transporting/shipment by road	(ADR)
UN numl	oer:	Not subject to transport regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing (group:	-
Environm	nentally hazardous:	-
Special p	recautions for user:	-
	Transporting/shipment by rail (R	IID)
UN numb	oer:	Not subject to transport regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing o	group:	-
Environm	nentally hazardous:	-
Special p	recautions for user:	-
	Inland waterway transport (ADN)
UN numl	oer:	Not subject to transport regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing (group:	-
Environm	nentally hazardous:	-
Special p	recautions for user:	-
	Transporting/shipment by sea (I	MDG)
UN numb	oer:	Not subject to transport regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing o	group:	-
Environm	nentally hazardous:	-
Special p	recautions for user:	-



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

UN proper shipping name:	
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-

15.1.	Safety, health and environ	nmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or rest	rictions of use					
	Authorizations:	-					
	Restrictions:	-					
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);					
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-					
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act					



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

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

None

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

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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

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

1.1.		ON 1: Identification of the substance/mixture and of the company/undertaking Product identifier			
1.1.	Trading name:	SODIUM N	METARISI II FI	TE, SOLUTION	
	Chemical name:	-	TE I TO SOCI I	11, 301011011	
	Catalogue number:	NM-OT-X*	**		
1.2.	Relevant identified uses of the substance or mixture and uses advised against			xture and uses advised against	
	Uses:			ith special staining kits.	
	Uses advised against:			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 supplie	of the safety	data sheet		
	Supplier:	В	oGnost Ltd.		
	Address:	N	Medjugorska 59, Zagreb		
	Telephone number:	+	385 1 2409997		
	Fax no.: +3		+385 1 2404039		
	Fax no.:	+	385 I 24040	39	
	Fax no.: e-mail of competent		sds@biogno		
1.4.	e-mail of competent	person: <u>m</u>			
1.4.	e-mail of competent National contact:	person: m	sds@biogno		
1.4.	e-mail of competent National contact: Emergency telephone	person: m	sds@biogno	ost.hr	

SECTIO	CTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Re	egulation (EC) No 1272/2	008 (CLP)			
	Hazard class and	category code:	Hazard statements*:			
	Eye Irr. 2		H319			
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazar	d-statements: see Section	n 16			
2.2.	Label elements					
	Product identification: SODIUM METABISULFITE, 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:	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. P308+P313 IF exposed or concerned: Immediately call a POISON CENTER or physician.			
	Supplemetal hazard information (EU):	-			
2.3.	Other hazards				
	Endocrine Disrupting Proper				
	·	No known endocrine disrupting properties			
	Results of PBT and vPvB asso PBT or a vPvB.	essment : According to the results of its assessment, this substance is not a			

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



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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 symptomati		Treat symptomatically.	
4.2.	Most important symptoms	s and ef	fects, both acute and delayed	
	Following inhalation:	No i	nformation available	
	Following skin contact:	No i	information available	
	Following eye contact:	Risk	of blindness, Risk of serious damage to eyes.	
	Following ingestion:	No i	nformation available	
4.3.	Indication of any immediate medical attention and special treatment needed			
	-			

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, foam, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Do not enter fire area without pro	oper protective equipment, including respiratory protection.			
5.4.	Additional information				
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.				

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.		



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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 co	ntainment 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 information	on about containment.			

SECTIO	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.		
	Measures to prevent aerosol and dust generat	ion:	Secure proper ventilation.		
	Measures to protect the environment: Other measures:		Prevent spilling into the sewage system and waterways.		
			-		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:		n tightly closed and upright set containers in a well ted place.		
	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:	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 19).		



Microorganisms in sewage treatment

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

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Trading name:			SC	DIUM	META	BISU	LFITE, SOLU	TION		
Product code:	NM-OT	-X**	F	Revision	date:	21	Dec 2022		Version:	4
72 6 .6	1 ()									
7.3. Specific end										
Recommen					-					
Industrial se	ector spe	ecific solutio	ns:		-					
SECTION 8. Exposu	re contr	ols/persona	al protec	ction						
8.1. Control par		,								
				Occi	upationa	al exp	osure limit			
Substance		CAS	No				m values	В	iological limit	values
				pp	m		mg/m³		_	
-		1			-		-	No in	formation ava	ilable
Substance -										
name: EC No: -		CAS No:								
DNEL -		CAS NO.	<u> </u>							
DIVEE				Indu	ıstrial					
Route of		Acute		Acute			Chronic		Chro	nic
exposure:		ect local			mic	effect local		effect systemic		
Oral	-		-	<u> </u>		-			-	
Inhalation	-		-			-			-	
Dermal	-	-				-			-	
Critical physical para	meters:	solubility, fla	ammabili	ty, corro	sivity:		-			
				Cons	sumer					
Route of	A	Acute		Acute			Chronic		Chro	nic
exposure:	effe	ect local	effe	ct syster	mic		effect local		effect sy	stemic
Oral	-		-			-			-	
Inhalation	-		-			-			-	
Dermal	-		-			-			-	
PNEC										
Environmental prote	ction tar	get		ı	PNEC					
Fresh water				1	No infor	matio	on available			
Freshwater sediments				1	No information available					
Marine water				1	No information available					
Marine sediments				1	No infor	matio	on available			
Food chain			1	No information available						

No information available



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

Soil (agric	ultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent expoduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prexposure:	event	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.		
8.2.2.2.	Skin protection				
	Hand protection:	Chem 374.	Glove material: nitrile rubber Glove thickness: > 0.11 mm Break through time: >480 min		
	Other skin protection:	i	or antistatic clothing made of natural fibers (such as cotton) with long ves (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	In cas	ase of inadequate ventilation wear respiratory protection.		
8.2.2.4.	Thermal hazards:	No in	nformation available		
8.2.3.	Environmental exposure of	controls	ls		
	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		

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties



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

SECTIO	ON 10.: Stability and reactivity	
10.1.	Reactivity:	See subsections 10.3 through 10.5.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.
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

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



Inhalation exposure:

No information available

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

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

Product code:	NM-O1-X**	Revision date:	21 Dec	2022	Version: 4
Ě					
Acute tox	icity:		:		
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposur time	re Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	-
Specific ta	arget organ toxicity – sinc	ale exposure (STOT S	F)·		
- - - 	3 3 3	c effects	1	et organ	Note
Oral exposure:	No information ava		No information available		-
Dermal exposure:	No information ava	No information available		nation	-
Inhalation exposure	e: No information ava	ailable	No information available		-
Respirato	ry irritation:	No information av	vailable		
Irritation a	and corrosion				
	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	-	-	-	
Eye irritation:	-	-	-	- Ca	auses serious eye damage
Sensitizat	ion				
Dermal exposure:	No information availab	le			
Inhalation exposure:	No information availab	le			
Symptom	s related to the physical,	chemical and toxicol	ogical char	acteristics	
Oral exposure:	No information avail		- 3.00. 0.1010		
Dermal exposure:	No information avail				



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Repeat	ed dose toxicity (su	bacute, subchr	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluatio	n	Note
Subacute oral	No information available	No information available	No information available	No information available	No inform	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	nation	-
Subchronic oral	No information available	No information available	No information available	No information available	No inforn available	nation	-
Subchronic dermal	No information available	No information available	No information available	No information available	No inform	nation	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No inforn available	nation	-
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 inform	nation	-
Chronic inhalation	No information available	No information available	No information available	No information available	No inform	nation	-
Specific	target organ toxic	<u> </u>	<u> </u>	<u> </u>			
Specific ef			ts	Target or	<u> </u>		Note
Subacute oral		ation available		No information		-	
Subacute derma		ation available		No information		-	
Subacute inhalat		ation available		No information		-	
Subchronic oral Subchronic derm		ation available		No information		-	



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Subchro	onic inhalation	No information avail	able	No information available	-			
Chronic	oral	No information avail	able	No information available	-			
Chronic	dermal	No information avail	able	No information available	_			
Chronic	inhalation	No information avail	able	No information available	-			
	CMR effects (c	carcinogenicity, mutage	enicity, reproductiv	ve toxicity)				
	Carcinogenici	ty:	No information a	vailable				
	Mutagenicity	in-vitro:	No information available					
	Genotoxicity:		No information available					
	Mutagenicity	in-vivo:	No information a	vailable				
	Germ cell mut	agenicity:	No information a	vailable				
	Reproductive	toxicity:	No information a	vailable				
	Summary of e	valuation of the CMR p	properties:	-				
11.2.	Information o	n other hazards:						
11.2.1.	Endocrine disrupting properties:							
	No known properties that	endocrine disrupti It affect human health.	9					
11.2.2.	Other informa	ition:						

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



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Crustacea:		EC ₅₀	48 hours	No ir availa	nformation able			No ir availa	nformation able	-
Algae/aquation	3	IC ₅₀	72 hours	No ir availa	nformation able	No ir availa	nformation able	No ir availa	nformation able	-
Other organisms		micro	oorganisms	No ir availa	nformation able	No ir availa	nformation able	-		
12.2. Pers	istence	e and degrad	dability							
Abio	tic de	gradation								
	De	egradation h	alf-lives		Method		E۱	/aluatio	on	Note
Marine water	Noi	nformation a	available	No info	ormation avai	lable	No informa	tion av	ailable	-
Fresh water	No i	nformation a	available	No info	ormation avai	lable	No informa	tion av	ailable	-
Air	Noi	nformation a	available	No info	ormation avai	lable	No informa	tion av	ailable	_
Soil	No information available No information available No information available				ailable	-				
No information		lo info vailable		No infor available		No ir availa	nformation able		No information	on availab
		lative poten		(1	Warrah.					
Value		pefficient: n- centration	pH	°C	Method	k	Evaluat	ion	No	ote
-	No i availal	nformation ble	-	-	No informat available	ion	No informa available	tion	-	
i	oncen	tration facto					F 1 .:			
Value		•	information		Method	NI - :	Evaluation		No informat	
No information No information available available							No information available			



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	Chr	onic ecoto	oxicity				:		:		
	Va	lue	Dose	1	osure me	Species	Meth	od	Evalua	ation	Note
Chronio	c toxic	city on fish	LC ₅₀	No inforr availa	nation id	lo nformat on vailable	No inform available	nation	No inform available	nation	-
Chronic		city on aphnia)	EC ₅₀	No inforr availa	nation id	lo nformat on vailable	No inform available	nation	No inform available	nation	-
12.4.	Мо	bility in so	il								
	-		dicted distribut	ion in e	environmer	ntal com	partments:				
			on available								
		face tensic									
		Value	°C		Concen	tration	Meth	od		Note	
	l intormation		No inform available	mation No informavailable		nation	No information available		-		
	Ads	orption /	desorption					1		1	
Transpo	ort		coefficient 's constant	lo	g Kow	Evapoi	ration rate	М	ethod	١	lote
Soil-wa	iter	No available	information	No in availa	formation ble	No info	ormation le	No info	ormation ole	-	
Water-	air	No available	information	No in availa	formation ble	No info	ormation le	No info	ormation ole	-	
Soil-air		No available	information	No in availa	formation ble	No info	ormation le	No info	ormation ole	-	
12.5.	Res	ults of PRI	Γ and vPvB asse	ssment							
	1,03	GIG OI I D	and vi vb asse	55.110110							



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	No know	n endocrine disruptino	properties that affect th	e environment.			
			, p p				
12.7.	Other adv	verse effects					
	No adver	se effects are expected	i.				
	N 13. Disp	osal considerations					
13.1.	Waste to	reatment methods					
13.1.1.	Droduct	/Dackaging disposal:					
15.1.1.		/Packaging disposal:	al person authorized by t	ho Ministry of Environ	montal and Naturo		
	Protecti		ar person authorized by t	THE WITHISTRY OF ENVIRONMENT	nental and Nature		
13.1.2.	Waste c	odes/waste designation	ons according to Law:				
	No info	rmation available					
	ii.						
13.1.3.		reatment – relevant in	formation:				
	No info	rmation available					
13.1.4.	Cowago	disposal – relevant inf	iormation:				
13.1.4.		·	of into the sewage system	0			
	vvaste ii	nust not be disposed t	or into the sewage system	1.			
13.1.5.	Other d	isposal recommendati	ons:				
	authoriz the pack	ed by the ministry in o	charge. Do not dispose o	f the packaging into th	remains to the collectors ne sewage system. Submit dispose of in places where		
13.1.6.	Relevan	t Community provision	ns:				
	-						
SECTION		sport information					
	······································	ting/shipment by road					
UN num			Not subject to transpo	rt regulations.			
	er shippin 		-				
	rt hazard c	lass(es):	-				
Packing			-				
Environn	onmentally hazardous: -						



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Special precautions for user:	-
Transporting/shipment by	rail (RID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
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 (IMDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by	air (ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: The prod	duct is not subject to classification.

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



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	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council 18 December 2006 concerning the Registration, Evaluation, Authorisation ar Restriction of Chemicals (REACH), establishing a European Chemicals Agenciamending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EE and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;
		Directive 2004/42/CE of the European Parliament and of the Council of 21 April 200 on the limitation of emissions of volatile organic compounds due to the use of organ solvents in certain paints and varnishes and vehicle refinishing products and amendin Directive 1999/13/EC;
		Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safe of workers from the risks related to chemical agents at work;
		Regulation (EC) No 1272/2008 of the European Parliament and of the Council of December 2008 on classification, labelling and packaging of substances and mixture 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 certa dangerous substances, mixtures and articles (Annex XVII);
	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values ar 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	

SECTIO	N 16. Other information	
16.1.	Indication of changes:	-



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16.2. Abbreviations and acronyms: Key literature references and			ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
16.3.	Key literature references and source of data:		-
16.4.	Classification and procedu 1272/2008 (CLP)	re used t	o derive the classification for mixture according to Regulation (EC)
Classifi	cation	Classi	fication procedure
-		-	
16.5.	Relevant H statements (nu	mber and	d full text)
	302	Harm	ful if swallowed.
	H: 318	Cause	s serious eye damage.
	319	Cause	s serious eye irritation.
	EUH031	Conta	ct with acids liberates toxic gas.
16.6.	Training advice:	-	
			in the product code marks different volumes (different packagings of oduct)
16.7.	Further information:	e not responsible for consequences in case of failure to comply with ctions for use or improper use of the product described in this ial safety data sheet.	

ANNEX: Exposure scenario resulting to Chemical safety assessment



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SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	SODIUM TE	TRABORA	TE, SOLUTION		
	Chemical name:	-	-			
	Catalogue number:	NTB-OT-X*	*			
1.2	Relevant identified use	es of the subst	tance or n	nixture and uses advised against		
	Uses:		For use	with special staining kits.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier	of the safety	data shee	t		
	Supplier:		BioGnost Ltd.			
	Address:	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	number				
	National Protection ar	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ON 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Reg	Classification according to Regulation (EC) No 1272/2008 (CLP)			
	Hazard class and catego	Hazard class and category code: Hazard statements*:			
	Flam. Liq. 2		H225		
	Eye Irr. 2		H319		
	STOT SE 3		H336		
2.1.2.	Additional information				
	-				
*For ful	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	SODIUM TETRA	BORATE, SOLUTION		
	Identification number:	-			



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1				
	Authorization number:	-		
	Hazard pictograms:	GHS02 GHS07		
	Signal word:	Danger		
	Hazard statements:	H225 Highly flammable liquid and vapor.H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness		
	Precautionary statements:	P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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			
	Endocrine Disrupting Properties: No known endocrine disrupting properties. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			

SECTION 3. Co	mposition/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)
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	40 - 60 %	ethanol	Flam. Liq. 2; H225
67-63-0/ 200-661-7/ 603-117-00-0	-	20 - 30 %	propan-2-ol	Flam. Liq. 2; H225 Eye Irr. 2; H319 STOT SE 3; H336
1330-43-4/ 215-540-4/ 005-011-00-4	-	< 0.5 %	sodium tetraborate	Eye Irr. 2; H319 Repr. 1B; H360FD



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4.1	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			
	Following ingestion:	Do not induce vomiting. Do not insert any object into the unconscious person's mouth. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.			
	Self-protection of the first aider:	-			
4.2	Most important symptoms and ef	fects, both acute and delayed			
	Following inhalation:	Central nervous system depression, prolonged or repeated exposure can cause: nausea, headache, vomiting, narcosis, drowsiness.			
	Following skin contact:	Defatting, dry skin.			
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.			
	Following ingestion:	Overexposure may cause mild, reversible liver effects. Aspiration may lead to: lung edema, pneumonia			
4.3	Indication of any immediate medi	cal attention and special treatment needed			

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Carbon dioxide (CO ₂), foam, dry powder.			
	Unsuitable extinguishing media:	edia: No information available.			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Carbon oxides Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.			
5.3	Advice for firefighters				



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	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.		
5.4	Additional information		
	Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.		

SECTIO	ON 6. Accidental release measu	ures				
6.1	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in c (see Section 8).	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3	Methods and material for cont	ainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.				
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					
	See Section 7 for information of	on safe handling.				
		on personal protection equipment.				
	See Section 13 for disposal information.					

SECTIO	SECTION 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				



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	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation	n: Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly wash hands after work and before eating.			
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight			
	Packaging materials:	Manufacturer's original packaging. Suitable material: HDPE containers. Keep away from food and drink. Keep the containers tightly closed. The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Requirements for storage rooms and vessels:				
	Advices for storage equipment:				
	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. Exposure controls/personal protection								
8.1 Control parameters	.1 Control parameters							
Substance	CAS No	•	exposure limit term values	Biological limit values				
		ppm	mg/m³					
Ethanol	64-17-5	1000/-	1900/-	-				
Propan-2-ol	67-63-0	400/500	999/1250	-				
Substance name: -								



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		T						
EC No:		- CAS No):					
DNEL								
			In	dustrial				
Route of		Acute	Acute		Chronic		Chronic	
exposure:		effect local	effect systemi	c	effect local		effect systemic	
Oral	-		-	-		-		
Inhalation		900 mg/m³ ethanol)	-	-			g/m³ (ethanol) g/m³ (propan-2-	·ol)
Dermal	-		-	-		_	g/kg (ethanol) g/kg bw/day (pr	opan-
Critical physical pa	aran	neters: solubility,	flammability, co	rrosivity:	-			
			Co	onsumer	·			
Route of		Acute	Acute		Chronic		Chronic	
exposure:		effect local	effect system	ic	effect local		effect systemic	
Oral		-	-	-		_	'kg bw/day (eth 'kg bw/day n-2-ol)	anol)
Inhalation		950 mg/m³ (ethanol)	-	-			g/m³ (ethanol) ′m³ (propan-2-c	ol)
Dermal		-	-	-		1	g/kg (ethanol) g/kg (propan-2-	ol)
PNEC				- 1		-		
Environmental pro	otec	tion target		PNEC				
Fresh water				0.96 mg/l (ethanol)				
Freshwater sedime	ents			3.6 mg/kg (ethanol)				
Marine water				0.79 mg/l (ethanol)				
Marine sediments				no information available				
Food chain				no information available				
Microorganisms in sewage treatment				no information available				
Soil (agricultural)				0.63 mg/kg (ethanol)				
Air					mation available			
				1				
8.2 Expos	sure	controls						
	-							



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Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

	Structural measures to prevent exposure:	Use mo	nodern equipment.		
	Substance/mixture related measures to prevent exposure:		ection 6		
8.2.3.	Environmental exposure controls				
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.2.3.	Respiratory protection:	If the concentration level exceeds the GVI values (or because of inadequate ventilation), use a filter for organic vapors, type "A" (boiling point >65°C) according to EN 14387.			
	Other skin protection:	suitable cover to of impe	everyday work use antistatic clothing (EN 13688) and e footwear, such as rubber boots (EN 20345) or shoes that the entire foot. In case of spilling hazard, use clothing made ermeable material suitable for protection from liquid cals (Viton, PVC, himex) and footwear made from the same al.		
	Hand protection:	Regula Full co	otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374. Intact: Glove material: butyl rubber Glove thickness: ≥ 0.50 mm Time until perforation: > 480 min contact: Glove material: nitrile rubber Glove thickness: 0.4 mm Break through time: 35 min		
8.2.2.2.	Skin protection				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.	Personal protection equipment				
	Technical measures to prevent ex	kposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
	Organizational measures to prevene 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 to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		



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

Physical state: Colour: Odour/odour threshold: Melting point / freezing point: Boiling point or initial boiling point and boiling range:	Value liquid colourless ethanol like/no information available No information available	Method No information available No information available No information available
Colour: Odour/odour threshold: Melting point / freezing point: Boiling point or initial boiling	colourless ethanol like/no information available	No information available No information available
Odour/odour threshold: Melting point / freezing point: Boiling point or initial boiling	ethanol like/no information available	No information available
Melting point / freezing point: Boiling point or initial boiling	information available	
Boiling point or initial boiling	No information available	No information available
J	:	INO IIIIOIIIIauoii availabie
point and boiling range.	No information available	No information available
Flammability:	No information available	No information available
Lower and upper explosion limit:	No information available	No information available
Flash point:	25 °C	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density	No information available	No information available
Relative vapour density:	No information available	No information available
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 (room temperature).				
10.3	Possibility of hazardous reactions:	No dangerous reactions known.				



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10).4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
10).5	Incompatible materials:	Acids, bases, oxidants.
10).6	Hazardous decomposition products:	Carbon monoxide and carbon dioxide.

11.1	Information	on toxicolog	ical effects						
	Acute toxicit	ty:							
Route c		Method	Species	Dos	se LD ₅₀ /LC ₅₀ o	or	Exposure ti	me	Results
Oral:		-	rat		LD ₅₀		-		7.060 mg/kg (ethanol) 5.840 mg/kg (2-propanol
Dermal		-	rabbit		LD ₅₀		-		>20.000 mg/kg (ethanol) 12.800 mg/kg (2-propanol
Inhalati	on:	-	rat		LC ₅₀		4 h		>8.000 mg/ (ethanol) 37.5 mg/l (2 propanol)
	Specific targ		city – single e	xposure (S					
			ecific effects			rget orga			Note
Oral:		No informati			No informa			-	
Dermal		No informati	on available		No informa	tion avail	able	-	
Inhalati	on:	No informati	on available		INO Information available			may cau or dizzir	se drowsiness less
	Aspiration h	azard:		No infor	mation availa	ble.			
	Irritation and	d corrosion							
		Expos	sure time	Spec	ies Eva	aluation	Method		Note
Skin corrosio	on/irritation:	-		-	-		-	-	
Serious	eye e/irritation	_		rabbit	_		-	cause irritat	s serious eye



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Sensitiz	ation						
Skin sensitizatior	າ:	No inf	ormation avail	able.			
Respiratory sensi	itization	: No inf	ormation avail	able.			
Sympto	ms relat	ed to the ph	ysical, chemica	al and toxicolog	jical characteristi	cs	
Oral exposure:	-	•	on available.				
Dermal exposure	e: N	No informati	on available.				
Inhalation expos	ure: N	No informati	on available.				
Eye exposure:	١	No informati	on available.				
Repeate	ed dose	toxicity (sub	acute, subchro	onic, chronic)			
<u> </u>		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available		No information available	No information available	No information available	No information available	-
Subacute dermal	No ir availat	nformation ole	No information available	No information available	No information available	No information available	-
Subacute inhalation	No ir availat	nformation ole	No information available	No information available	No information available	No information available	-
Subchronic oral	No ir availat	nformation ole	No information available	No information available	No information available	No information available	-
Subchronic dermal	No ir availat	nformation ole	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No ir availat	nformation ole	No information available	No information available	No information available	No information available	-
Chronic oral	No ir availat	nformation ole	No information available	No information available	No information available	No information available	-
Chronic dermal	No ir availat	nformation ole	No information available	No information available	No information available	No information available	_



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Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	on	-
Spec	ific target	organ toxicit	y – repeated e	exposure (STOT	RE):			
ii			Specific effe		Target o	rgan		Note
Subacute oral	e oral No information availabl				No information	n available	_	
Subacute derr	mal	No informa	ntion available		No informatio	n available	-	
Subacute inha	lation	No informa	ntion available		No informatio	n available	-	
Subchronic or	al	No informa	ntion available		No informatio	n available	-	
Subchronic de	ermal	No informa	ntion available		No informatio	n available	-	
Subchronic in	halation	No informa	ntion available		No informatio	n available	-	
Chronic oral		No informa	ntion available		No informatio	n available	-	
Chronic derma	al	No informa	ition available		No informatio	n available	-	
Chronic inhala	ntion	No informa	ntion available		No informatio	n available	-	
Carci Muta	nogenicit genicity <i>i</i>	y:	y; mutagenicit	Based on avail	able data, the cla	ssification c	riteri	a are not met.
	toxicity:	•			able data, the cla			
	genicity i				able data, the cla			
		agenicity:		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
Kepro	oductive t	oxicity:		Based on avail	able data, the cla	issification c	riteri	a are not met.
Sumr	mary of erties:	evaluation	of the CI	MR Based on met.	available data, 1	the classifica	ation	criteria are not
11.2 Infor	mation or	n other hazard	ds:					
11.2.1. Endo	crine disr	upting prope	rties:					
No k	nown end	locrine disrup	ting propertie	es that affect hu	man health.			
11.2.2. Othe	r informa	tion:						
_							_	

SEC	CTION 12. Ecological information
12.	1 Toxicity



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Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Pimephales promelas	No information available	8.140 mg/l (ethanol) 9.640 mg/l (2- propanol)	-
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol) 13.299 mg/l (2-propanol)	-
Algae/aquatic plants	IC ₅₀	4 days	algae	No information available	5.000 mg/l (ethanol) >1,000 mg/l (2-propanol)	-
Other organisms	-	_	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	_	_	_	_	_	_

12.2 Persistence and degradability

Abiotic degradation

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



Value

°C

Concentration

Method

Note

SAFETY DATA SHEET

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									Page 13 o	118
Trading	g name:				SODI	UM TETRAB	BORATE, SOLI	JTION		
Product code: NT		NTB-O	Г-Х**		Revi	sion date:	14 Novem	ber 2022	Versior	า:
0/ 5	Biodegrad			`						
% De	gradation	II	me (days	5)	N	/lethod	Evaluatio		Not	ie
-		-			-		No information available	n		
12.3	Bioaccum	ulative pot	tential							
		vater parti		ficient (log Kow)				
Value	e Co	ncentratio	n p	Н	°C	Method	E	valuation		Note
_	-		-		-	-	-		-	
	Bioconce	ntration fac	ctor (BCF)			-			
	alue		Species		Method		Evaluation		No	te
No infor available	rmation e	No available	inform	nation No info availab		ormation lle	No information available			
N	Chronic e	cotoxicity								
	Value		Dose		osure ime	Species	Method	Evaluati	ion	Note
Chronic	toxicity or	ı fish	LC ₅₀	No infor avail	mation able	No information available	No information available	No inform available	ation -	
	toxicity or ea (<i>Daphni</i> o	1 1	EC ₅₀	No infor avail	mation able	No information available	No information available	No inform available	lation -	
12.4	Mobility i	n soil								
	Known or	predicted	distribut	ion in e	environm	nental compar	tments:			
	No inforn	nation avai	lable							
	Surface te	ension:								



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Trading	g name:			SOD	DIUM T	ETRABORA	TE, SOLUTION	
Product code:		N ⁻	NTB-OT-X**		Revision date:		4 November 2022	Version: 7
No informatio available			No information available	No inform available	No intermation		ition available	-
	Adsorp	tion / c	desorption					
Transpo	ort	-	coefficient 's constant	log Kow	Evap	poration rate	Method	Note
Soil-wat	ter av	o ailable	information	No informatio n available	No info	ormation ble	No information available	-
Water-a	Water-air No information available			No informatio n available	No information available		No information available	-
Soil-air No informatio available		information	No informatio n available	No information available		No information available	-	
12.5.			and vPvB asses					
							be either persistent, b It levels of 0.1% or hig	
12.6.	Endocri	ine disr	rupting properti	es				
	accordi	ng to F		7(f) or Commi	ission De	elegated regu	ed to have endocrine outline of the desired to have endocrine of t	
12.7.	Other a	dverse	effects					
	No furt	her rele	evant information	on available.				
			consideration	S				
13.1	Waste	e treatr	ment methods					
13.1.1.	Produ	ıct/Pac	kaging disposa	l:				
	Subm		2 2 .		uthorize	d by the Min	istry of Environmenta	l and Nature



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13.1.2.	Waste codes/waste designations according to Law:						
	Packaging that contains resi	dual hazardous substances or is contaminated with hazardous substances					
13.1.3.	Waste treatment – relevant	Waste treatment – relevant information:					
	No information available						
13.1.4.	Sewage disposal – relevant i	information:					
	Waste must not be disposed	d of into the sewage system.					
13.1.5.	Other disposal recommenda	ations:					
	authorized by the ministry in	uct's remains into the sewage system. Submit the remains to the collectors n charge. Do not dispose of the packaging into the sewage system. Submit ors authorized by the ministry in charge.					
13.1.6.	Relevant Community provisi	ions:					
	Disposal must be made acco	ording to official regulations.					
SECTION	N 14 TRANSPORT INFORMAT	TION					
	Transporting/shipment by roa	d (ADR)					
UN num	ber:	1993					
UN prop	er shipping name:	Flammable liquid, n.o.s. (ethanol, isopropanol)					
Transpo	rt hazard class(es):	3					
Packing	group:	II					
Environr	nentally hazardous:	-					
Special p	precautions for user:	-					
	Transporting/shipment by rail	(RID)					
UN num	ber:	1993					
UN prop	er shipping name:	Flammable liquid, n.o.s. (ethanol, isopropanol)					
Transpo	rt hazard class(es):	3					
Packing	group:	II					
Environr	nentally hazardous:	-					
Special p	precautions for user:	-					
	Inland waterway transport (AD	DN)					
UN num	ber:	1993					
UN prop	er shipping name:	Flammable liquid, n.o.s. (ethanol, isopropanol)					
Transpo	rt hazard class(es):	3					
Packing	group:	II					



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Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1993
UN proper shipping name:	Flammable liquid, n.o.s. (ethanol, isopropanol)
Transport hazard class(es):	3
Packing group:	П
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:	1993
UN proper shipping name:	Flammable liquid, n.o.s. (ethanol, isopropanol)
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTION	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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	None	
15.2	Chemical safety assessme	ent
	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
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
		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;
		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;
	Other EU regulations:	18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;
		Regulation (EC) No 1907/2006 of the European Parliament and of the Council of

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



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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classification			Classification procedure			
_	_		-			
16.5.	16.5. Relevant H statements (nun		ber and full text)			
		225	Highly flammable liquid and vapor.			
	H:	319	Causes serious eye irritation.			
		336	May cause drowsiness or dizziness.			
		360FD	May damage fertility. May damage the unborn child.			
16.6.	Training 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
-