

ALCIAN BLUE-P.A.S. KIT

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



Page 1 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

SECTI	ON 1: Identification of	the subst	ance/mixture a	nd of the company/undertaking	
1.1.	Product identifier				
	Trading name:	ALCIAN	N BLUE SOLUTIO	N pH 2.5	
	Chemical name:	-			
	Catalogue number:	AB2-O	T-X**		
1.2.	Relevant identified us	es of the	substance or mix	cture and uses advised against	
	Uses:		For staining aci	id mucopolysaccharides of intestinal goblet cells.	
	Uses advised against:		Only the identi	fied uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telephone number:		+385 1 24099	97	
	Telephone number: Fax no.:		+385 1 24099 +385 1 24040		
		erson:		39	
	Fax no.:	person:	+385 1 24040	39	
1.4.	Fax no.: e-mail of competent p		+385 1 24040 msds@biogno	39	
1.4.	Fax no.: e-mail of competent p	number	+385 1 24040 msds@biogno	39	
1.4.	Fax no.: e-mail of competent p National contact: Emergency telephone	number	+385 1 24040 msds@biogno	39 ost.hr	

SECTIO	ON 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	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-sta	tements: see S	ection 16			
2.2.	Label elements					
	Product identification:	ALCIAN BLUE	SOLUTION pH 2.5			
	Identification number:	-				
	Authorization no.:					
	Hazard pictograms:	-				



Page 2 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

	Signal word:	-			
	Hazard statements:	-			
	Precautionary statements:	-			
	Further information:	-			
2.3.	Other hazards				
	Endocrine Disrupting Propertie	ss:			
	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	ON 4. First aid measures			
4.1.	Description of first aid measures			
	General notes:		-	
	Following inhalation:		No information available	
	Following skin contact:		No information available	
	Following eye contact:		No information available	
	Following ingestion:		No information available	
	Self-protection of the first a	ider:	Treat symptomatically.	
4.2.	Most important symptoms a	and eff	fects, both acute and delayed	
	Following inhalation:	No i	nformation available	
	Following skin contact:	No i	nformation available	
	Following eye contact:	No i	nformation available	
	Following ingestion:	No i	No information available	
4.3.	Indication of any immediate	medi	cal attention and special treatment needed	
	-			

SECTIO	ON 5 Firefighting measures
5.1.	Extinguishing media



Page 3 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

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

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



Page 4 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

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:	-				

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



										Page 5 of 16
Trading na	ame:	ALCIAN BLUE SOLUTION pH 2.5								
Product code:		AB10-OT-X** Date		Date o	of compilation: 21 Dec		ec 2022	Version: 4		
	:			:	•			1		1 1
-			-			-		-	No inform	nation available
	:									
Substance	_									
name:			I							
EC No:	-		CAS No:	-						
DNEL										
_			_			lustrial				
Route of exposure:			Acute ect local		Acut			Chro effect		Chronic
Oral		-	ect iocai	_	ffect sys	terriic	_	enect	iocai	effect systemic
Inhalation		- -		_			_			_
Dermal				_			_			_
	sical nar	ameters: «	solubility, fla		nility cor	rosivity.		_		
Circledi priy	sicui pui	<u> </u>	Joid Dilley, 110	arrina c		nsumer				
Route of			Acute	Acut			Chronic		nic	Chronic
exposure:					ffect sys			effect local		effect systemic
Oral		-		_			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC							I			
Environmen	ntal prote	ection tar	get			PNEC				
Fresh water						No infor	natio	n availab	le	
Freshwater	sedimer	nts				No information available				
Marine wat	er					No information available				
Marine sedi	iments					No information available				
Food chain						No information available				
Microorgan	isms in s	sewage tr	eatment			No information available				
Soil (agricul	ltural)					No information available				
Air				No information available						
8.2.	Exposu	sure controls								
8.2.1.	Approp	oriate eng	ineering co	ntrols						
	measu	res to pre	ire related vent exposu I uses:	ıre		•				lse personal protective he workspace.
	Structu	during identified uses: Structural measures to prevent exposure: No information available								



Page 6 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.					
	Technical measures to prexposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.					
8.2.2.	Personal protection equi	pment						
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.					
8.2.2.2.	Skin protection							
			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:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).						
8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.					
8.2.2.4.	Thermal hazards:	No inf	ormation available					
8.2.3.	Environmental exposure controls							
	Substance/mixture 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					

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



Page 7 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5					
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	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. Informati	Information on toxicological effects						
Acute to	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	-	_		



Page 8 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5						
Product code:	AB10-OT-X**	Da	ite of compilat	ion: 2	1 Dec 2022	Vers	sion: 4
Inhalation	No informatio	n _		LC ₅₀	_	-	-
exposure:	available						
			(CTOT CE)				
Specific t	arget organ toxicit		osure (STOT SE):				NI-+-
		cific effects		Target o			Note
Oral exposure:		tion available		mation av		-	
Dermal exposure:		tion available		mation av		-	
Inhalation exposu	re: No informa	tion available	No infor	mation av	/aılable	-	
Respirato	ory irritation:	N	o information a	vailable			
Irritation	and corrosion						NI .
CI : : : :	Exposure time			luation	Metho		Note
Skin irritation:	-	-	-		-	-	
Eye irritation:	-	-	-		-	_	
Sensitizat							
Dermal exposure:	No information	available					
Inhalation	No information	available					
exposure:							
Symptom	ns related to the ph	vsical chemic	al and toxicolog	ical chara	acteristics		
Oral exposure:	No information		ar arra toxicolog	icai citat	2001130103		
Dermal exposure:	No information						
Inhalation							
exposure:	No information	available					
Eye exposure:	No information	available					
-							
Repeated	I dose toxicity (sub	acute, subchro	onic, chronic)				
	Dose	Exposure time	Species	Method	d Evaluat	tion	Note
Subacute oral	No information available	No information available	No information available	No informa n availa	atio availah	ormation le	-
Subacute dermal	No information available	No information available	No information available	No informa n availa	atio availah	ormation le	-



Subacute

inhalation

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

No

informatio

n available

Page 9 of 16

No information

available

Trading name:	ALCIAN BLUE SOLUTION pH 2.5					
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

information

available

No

No

information

available

No information

available

			avallable	avallable				
Subchronic oral	No i	information ble	No information available	No information available	No informatio n available	No infor		-
Subchronic No information dermal available		No information available	No information available	No informatio n available	No infor		-	
Subchronic No information nhalation available		No information available	No information available	No informatio n available	No infor		-	
Chronic oral	Chronic oral No information available		No information available	No information available	No informatio n available	No infor		-
Chronic dermal	Chronic dermal No information available		No information available	No information available	No informatio n available	No infor		-
Chronic inhalation	No i availa	information ble	No information available	No information available	No informatio n available	No infor		-
						:		
				:	;	1		:
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):	;		,
Specific	target		y – repeated e	xposure (STOT	RE): Target organ	1		Note
i •	target	Spe	· · · · · · · · · · · · · · · · · · ·			ole	_	Note
Subacute oral Subacute dermal	<u> </u>	Spe No informa	cific effects	No info	Target organ		-	Note
Subacute oral Subacute dermal Subacute inhalat	<u> </u>	Spe No informa No informa	cific effects ation available ation available ation available	No info	Target organ rmation availab rmation availab rmation availab	ole		Note
Subacute oral Subacute dermal Subacute inhalat Subchronic oral	l	Spe No informa No informa No informa	cific effects ation available ation available ation available ation available	No info No info No info No info	Target organ rmation availab rmation availab rmation availab rmation availab	ole ole	-	Note
Subacute oral Subacute dermal Subacute inhalat Subchronic oral Subchronic derm	l ion nal	Spe No informa No informa No informa No informa	cific effects ation available ation available ation available ation available ation available	No info No info No info No info No info	Target organ rmation availab rmation availab rmation availab rmation availab rmation availab	ole ole ole	-	Note
Subacute oral Subacute dermal Subacute inhalat Subchronic oral Subchronic derm Subchronic inhal	l ion nal	Spe No informa No informa No informa No informa No informa	cific effects ation available ation available ation available ation available ation available ation available	No info No info No info No info No info No info	Target organ rmation availab rmation availab rmation availab rmation availab rmation availab rmation availab	ole ole ole ole	-	Note
Subacute oral Subacute dermal Subacute inhalat Subchronic oral Subchronic derm Subchronic inhal Chronic oral	l ion nal	Spe No informa No informa No informa No informa No informa No informa	cific effects ation available	No info	Target organ rmation availab	ole ole ole ole ole		Note
Subacute oral Subacute dermal Subacute inhalat Subchronic oral Subchronic derm Subchronic inhal Chronic oral	l ion nal ation	Spe No informa No informa No informa No informa No informa No informa No informa	cific effects ation available	No info	Target organ rmation availab	ole ole ole ole ole ole ole		Note
Subacute oral Subacute dermal Subacute inhalat Subchronic oral Subchronic derm Subchronic inhal Chronic oral	l ion nal ation	Spe No informa No informa No informa No informa No informa No informa No informa	cific effects ation available	No info	Target organ rmation availab	ole ole ole ole ole ole ole		Note
Subacute oral Subacute dermal Subacute inhalat Subchronic oral Subchronic inhal Chronic oral Chronic dermal Chronic inhalatio	l ion nal ation	Spe No informa No informa No informa No informa No informa No informa No informa	cific effects ation available	No info	Target organ rmation availab	ole ole ole ole ole ole ole		Note
Subacute oral Subacute dermal Subacute inhalat Subchronic oral Subchronic inhal Chronic oral Chronic dermal Chronic inhalatic	l ion nal ation on	Spe No informa No informa No informa No informa No informa No informa No informa	cific effects ation available	No info	Target organ rmation available toxicity)	ole ole ole ole ole ole ole		Note
Subacute oral Subacute dermal Subacute inhalat Subchronic oral Subchronic derm Subchronic inhal Chronic oral Chronic dermal Chronic inhalatio	lion nal ation on fects (ca	Spe No informa arcinogenicity V:	cific effects ation available	No info	Target organ rmation available toxicity)	ole ole ole ole ole ole ole		Note
Subacute oral Subacute dermal Subacute inhalat Subchronic oral Subchronic inhal Chronic oral Chronic dermal Chronic dermal Chronic dermal	l ion nal ation on fects (ca genicity	Spe No informa arcinogenicity V:	cific effects ation available	No info vo info	Target organ rmation availab	ole ole ole ole ole ole ole		Note



Page 10 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5			
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Germ cell mutagenicity:	No information available
	Reproductive toxicity:	No information available
	Summary of evaluation of the C	MR properties: -
11.2	Information on other hazards:	
11.2.1.	Endocrine disrupting properties	
	The substance/mixture does contain components consider have endocrine disrupting praccording to REACH Article Commission Delegated regulat 2017/2100 or Commission Re(EU) 2018/605 at levels of (higher.	ered to roperties 57(f) or ion (EU) gulation
11.2.2.	Other informations:	
	-	

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	-	1
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	-	1
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-



Page 11 of 16

Trading nam	ie:				ALCIAN BLUE	SOLU	JTION pH	2.5		
Product code	e:	AB10-OT-X**			Date of compilation:		21 Dec	2022	Version:	4
Algae/aquatic plants	-	IC ₅₀	72 ho	ours	No information available		rmation lable	_	_	
Other organis	ms	-	-		-	-		_	-	
		e and degradal	oility							
Abio		gradation		-						
	D	egradation hal	f-lives		Method			Evaluation	1	Note
Marine water	No i	information av	ailable	No	information avai	lable	No inform	ation ava	ilable	-
Fresh water	No i	information av	ailable	No	information avai	lable	No inform	ation ava	ilable	-
Air		information av			information avai		No inform	ation ava	ilable	-
Soil	No i	information av	ailable	No	information avai	lable	No inform	ation ava	ilable	-
**										
	egrada									
% Degradation		Time (day			Method		Evaluation		Note	
No information available		lo infori vailable	mation						o information railable	
12.2 Pi		lati aataatia		:		:		:		
		lative potentia pefficient: n-oc		water (l	og Kow):					
Value		centration	рН	°(Evalua	ition	No	ıte
	No	information	РП		No informat		No inform		110	
-	availa		-	-	available		available		-	
	oncent	tration factor (BCF)							
Value		Species			Method		Evaluati		No	
No information available	n	No inform available	ation				No information available		No information available	
		otoxicity								



Endocrine disrupting properties

12.6.

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

Page 12 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Va	alue	Dose	Exposure time	Species	Method	Evaluat	ion Note
Chronic toxi	city on fish	LC ₅₀			No information available		ation -
Chronic toxi crustacea (<i>D</i>	•	EC ₅₀	information ir	lo nformation vailable	No information available	No inform available	ation ₋
12.4. Mo	bility in soil						
Kno	own or pred	icted distributi	on in environmen	ital compart	ments:		
No	information	n available					
Sur	face tensior	າ:					
	Value	°C	Concentratio	n	Method		Note
			No informatio available	No information ava		lable -	-
Ads	sorption / d	esorption					
Transport		oefficient s constant	log Kow	Evapor	ation rate	Method	Note
Soil-water	No available	information	No information available			No information available	-
Water-air	ater-air No information available		No information available	n No information available		No information available	-
Soil-air No information available		No information available	n No information available		No information	_	



Trading name:

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

ALCIAN BLUE SOLUTION pH 2.5

Page 13 of 16

Produ	ıct code:	AB10-OT-X**	Date of compilation: 21 Dec 2022 Version: 4
	according		t contain components considered to have endocrine disrupting properties or Commission Delegated regulation (EU) 2017/2100 or Commission els of 0.1% or higher.
12.7.	Other ad	verse effects	
	No inforr	mation available	
SECTION	ON 13. Dis _l	posal considerations	
13.1.	Waste	treatment methods	
13.1.1.		t/Packaging disposal:	
	Submit Protect		al person authorized by the Ministry of Environmental and Nature
13.1.2.		codes/waste designation	ons according to Law:
	No info	ormation available	
13.1.3.		treatment – relevant in	formation:
	No info	ormation available	
10.1.1			
13.1.4.		e disposal – relevant inf	
	vvaste	must not be disposed (of into the sewage system.
13.1.5.	Othor	disposal recommendati	one:
13.1.3.		•	t's remains into the sewage system. Submit the remains to the collectors
	authori the pac	zed by the ministry in o	charge. Do not dispose of the packaging into the sewage system. Submit is authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevar	nt Community provision	ns:
	-		
SECTION		nsport information	
		ting/shipment by road	
UN nu			Not subject to transport regulations.
	oper shippii		-
	ort hazard	class(es):	-
Packin	g group:		-



Page 14 of 16

Trading name:		ALCIAN BLUE SOLU	TION pH 2.5	
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	_
Packing group:	_
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
Transporting/simplifient by sea (ii	NIEG,
UN number:	Not subject to transport regulations.
UN number:	Not subject to transport regulations.
UN number: UN proper shipping name:	Not subject to transport regulations.
UN number: UN proper shipping name: Transport hazard class(es):	Not subject to transport regulations
UN number: UN proper shipping name: Transport hazard class(es): Packing group:	Not subject to transport regulations.
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:	Not subject to transport regulations.
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user:	Not subject to transport regulations.
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC)	Not subject to transport regulations. AO-TI/IATA-DGR)
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC) UN number:	Not subject to transport regulations. Not subject to transport regulations.
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC) UN number: UN proper shipping name:	Not subject to transport regulations. Not subject to transport regulations. AO-TI/IATA-DGR) Not subject to transport regulations
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC) UN number: UN proper shipping name: Transport hazard class(es):	Not subject to transport regulations. Not subject to transport regulations. AO-TI/IATA-DGR) Not subject to transport regulations
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (ICUN number: UN proper shipping name: Transport hazard class(es): Packing group:	Not subject to transport regulations. Not subject to transport regulations
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC) UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:	Not subject to transport regulations. Not subject to transport regulations

SECTION 15. Regulatory information

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



Page 15 of 16

Trading name:		ALCIAN BLUE SOLU	TION pH 2.5		
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	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 (Appear XVIII):
		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:	-



Page 16 of 16

Trading name:	ALCIAN BLUE SOLUTION pH 2.5			
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

Page 1 of 17

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

		the substance	e/mixture	e and of the company/undertaking	
1.1	Product identifier				
	Trading name:	BIOSCHIFF I	REAGENT		
	Chemical name:	-			
	Catalogue number:	BS-OT-X**			
1.2	Relevant identified us	es of the subst	tance or n	nixture 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 advi	advised against: medical device, registered at the		duct 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	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039		
	Telephone number:				
	Telefax.:				
	e-mail of competent p	person:	msds@b	<u>oiognost.hr</u>	
	National contact:		_		
1.4	Emergency telephone	number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	TION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Re	gulation (EC) No 1	272/2008 (CLP)			
	Hazard class and cate	gory code:	Hazard statements*:			
	-		EUH031			
2.1.2.	Additional information					
	-	-				
*For fu	ll text of Hazard- and EU Hazard	d-statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	BIOSCHIFF REA	GENT			
	Identification number:	on number: -				
	Authorization number:	-				
	Hazard pictograms:	-				



Page 2 of 17

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

	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 Properties:			
	No known endocrine disrupting properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is PBT or a vPvB.			

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
7681-57-4/ 231-673-0/ 016-063-00-2	01-2119531326-45- XXXX	1 – 3 %	sodium metabisulfite	Acute Tox. 4; H302 Eye Dam. 1; H318 EUH031			
7647-01-0/ 231-595-7/ 017-002-01-X	01-2119484862-27- XXXX	0.7 – 1 %	hydrochloric acid, 36.5%	Skin Corr. 1B; H314 Acute Tox. 3; H331			
569-61-9/ 209-321-2/ 611-031-00-X	-	< 0.1 %	4,4'-(4-iminocyclohexa-2,5-dienylidenemethylene) dianiline hydrochloride; C.I. Basic Red 9	Carc. 1B; H350			

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



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

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

Page 3 of 17

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 effect	cts, 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 medica	l attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures						
5.1	Extinguishing media	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 sub	stance or mixture					
	Hazardous combustion products:	Sulfur oxides.					
5.3	Advice for firefighters						
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.						
5.4	Additional information						
	Do not contaminate the environmen	t with extinguishing media.					

SECTIO	SECTION 6. Accidental release measures						
6.1	Personal precautions, protective	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 an without protective equipment. Avoid breathing vapors with skin and eyes. Do not smoke.						
	Emergency procedures:	Mark the area using proper signs.					



Page 4 of 17

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; in (see Section 8).	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment					
6.2	Environmental precautions:						
	Do not dispose of in sewage, Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.					
6.3	Methods and material for cor	ntainment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.						
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable 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. Th	noroughly was	sh hands after work and before eating.				
7.2	Conditions for safe storage, including any incon	npatibilities					
	Technical measures and storage conditions:	Technical measures and storage conditions: Keep in tightly closed and upright set contained well ventilated storage rooms at temperatures from 15 to 25 °C.					
	Packaging materials:	Manufactu containers	urer's original packaging. Avoid metal				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.					



Page 5 of 17

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

	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 Cont	rol parame	ters						
Substance		CA			Occupational exposure limit values/short term values		Biological limit values	
				ppm		mg/m³		-
sodium metabisulfite		7681-5	7-4	-/-		5/-	No i	nformation available
Substance na	me: -							
EC No: -		CAS No): -					
DNEL	i	1	:					
				Industri	al			
		Acute ffect local		ute ystemic		Chronic effect local		Chronic effect systemic
Oral			-	-			-	
Inhalation	-		-		-			-
Dermal	-		-		-			-
Critical physic	al paramet	ers: solubility	, flammabili	ty, corrosivi	ty:	-		
				Consum	er			
Route of exposure:	e	Acute effect local		tute systemic				Chronic effect systemic
Oral	-		-	-		-		-
Inhalation	-		-		-		-	
Dermal	-		-		-			-
PNEC								
Environmenta	l protectio	n target		PNE	2			



Page 6 of 17

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

No information available No information available No information available
No information available
No information available

8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to prevent exposure: Technical measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.		
			Secure proper workspace ventilation in order to keep ure: concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection	.1			
	Hand protection:	Protec	tive nitrile gloves, 0.11 mm thick (EN 374).		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 340) and shoes that cover the entire foot.		
8.2.2.3.	Respiratory protection:	combii	le mask (EN 136) or half mask (EN 140) equipped with a ned "A1 + Form" filter (EN 143) used when concentration exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		
	Structural measures to prevent exposure:	Use mo	odern equipment.		



Page 7 of 17

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

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

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

SECTIO	SECTION 10. Stability and reactivity		
10.1	Reactivity:	No information available	
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.	
10.3	Possibility of hazardous reactions:	No information available	



Page 8 of 17

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

10.4	Conditions to avoid:	No information available
10.5	Incompatible materials:	Strong oxidants (acids).
10.6	Hazardous decomposition products:	Sulfur dioxide, sodium oxide.

SECTION 11	l. Toxicological	information						
11.1 Info	ormation on toxic	cological effects						
Acu	ite toxicity:							
Route of exposure:	Method	Species		LD ₅₀ /LC ₅₀ 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 inforn availa	nation ble	4h			>5.5 mg/l (sodium metabisulphite)
Spe		n toxicity – single expo	osure (ST					
0 1		Specific effects		Target organ No information available			Note	
Oral:	No information						-	
Dermal:	No information			No information available - No information available -				
Inhalation:	No information	n available		No inform	ation availa	ible	-	
Asp	piration hazard:	No	o inform	ation availa	able.			
Irrit	ation and corros	ion						
	E	xposure time	Spe	cies	Evaluati on	Method		Note
Skin corrosion/irr	itation:	-			-	-	-	
Serious eye damage/irrit	ration -	-			-	-	_	
Sen	sitization							
Skin sensitiz		No information avail	able					



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

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

Page 9 of 17

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

Sympto	ms related to the p	hysical, chemic	al and toxicolog	gical characterist	ics			
			astrointestinal irritation accompanied by abdominal pains and cramps; higher centration may induce vomiting and diarrhea.					
Dermal exposure	: May cause s	kin irritation.						
Inhalation expos	ure: exposure an	May cause respiratory system irritation. At high levels of concentration, prolonged exposure and when used by sensitive persons bronchospasm may occur, as well as asthma attack and gastrointestinal irritation.						
Eye exposure:	May cause e	ye irritation.						
Danasta	al ala a a travilaito (/ / / / /							
Repeate	d dose toxicity (sub		onic, chronic)					
	Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No information available	No information available	No information available	No information available	No information available	-		
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-		
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-		
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-		
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-		
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-		
Chronic oral	No information available	No information available	No information available	No information available	No information available	-		
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-		
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-		



Page 10 of 17

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

	Specific target	organ toxicity – repeated expo	sure (STOT RE):	•	
		Specific effects	5	Target organ	Note
Subacu	ite oral	No information available		No information available	-
Subacute dermal No information available			No information available	-	
Subacu	ite inhalation	No information available		No information available	-
Subchr	Subchronic oral No information available			No information available	-
Subchr	onic dermal	No information available		No information available	-
Subchr	onic inhalation	No information available		No information available	-
Chronic	c oral	No information available		No information available	-
Chronic dermal No information available		No information available		No information available	-
Chronic	c inhalation	No information available		No information available	-
	1				
		arcinogenicity; mutagenicity; re		-	
	Carcinogenicit		No informatio		
	Mutagenicity i	n vitro:	No informatio		
	Genotoxicity:		No information available		
	Mutagenicity i		No information available		
	Germ cell mut		No information available		
	Reproductive	toxicity:	No informatio	on available	
	Summary of properties:	evaluation of the CMR	No informatio	on available	
11.2	Information or	n other hazards:			
11.2.1	Endocrine disr	upting properties:			
	No known en	docrine disrupting properties			



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

Page 11 of 17

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

11.2.2	Other informations:
	-

12.1 Toxicity						
Acute (short-term toxicity	n) 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 pla	ants IC ₅₀	4 days	Green algae (sodium metabisulphite)	No information available	43.8 mg/l (sodium metabisulphite)	_
Other organisms	-	-	-	-	-	-
Chronic (long-ter toxicity	m) 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 pla	ants IC ₅₀	72 hours	No information available	No information available	No information available	_
Other organisms	-	-	-	-	-	-
	nce and degrada	bility				
Abiotic o	degradation					
	Degradation h		Method	Evaluation		te
Marine water	No information	availahla 🗀	No information available	No information	on -	



Trading name:

SAFETY DATA SHEET

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

BIOSCHIFF REAGENT

Page 12 of 17

Trauling Harrie.					вюзспігг і	VE/VOEIVI				
Product code:	BS-OT->	< **		Dat	e of compilation	n: 17 Jan 2	2024	,	Version:	5
Fresh water	esh water I No intormation available		No information available		No information available		-			
Air	No informat	ion availab	ole	No in availa	formation ble	No information		-		
Soil	No informat	ion availab	le	No in	formation ble	No information	on	-		
Biodea	radation									
% Degradatio		me (days)			Method	Evaluation	n i		Note	
No information available	No availab	informat	tion	No in availa	formation ble	No information available		No inf availal	formation ble	
Octano	ımulative pot I-water partit		ient (lo	og Kov	v)			***		
Value	oncentratio n	рН		°C	Method	Evaluati	ion		Note	
-		-	-		-	-		-		
Biocone	centration fac	tor (BCF)								
Value	S	pecies	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Method	Evaluatio	n		Note	
No information No informat available available			No information available		No information available		-			
Chronic	ecotoxicity									
Value	Do	se	Expo		Species	Method	Evalu	ation	Note	
Chronic toxicity on fish	LC ₅₀	i	No inform n avai		No information available	No information available	No inforr on availa		-	



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

Page 13 of 17

Tradin	g nam	ne:			BIO	SCHIFF F	REAG	ENT			
Product code:			BS-OT-X** Da		Date of compilation: 17 Jan 20		2024	Version:	5		
Chronic toxicity on crustacea (Daphnia)		- 1	C ₅₀	No informatio n available	rmatio No information			No nformation available No informati on available		-	
12.4	Mobi	ility in so	il								
	Knov	vn or pre	dicted distributi	on in environm	nental co	ompartme	ents:				
	No ir	nformatio	n available								
	Surface tension:										
	V	'alue	°C	Concentra	ation	l	Metho	od		Note	
	No infor availa	mation able	No information available	No informa available	ition	No infor		n	-		
	Adso	orption / o	desorption								
Transpo	A/D coefficient			log Kow Evaporation		aporation	rate	te Method		Note	<u>,</u>
Soil-wa	tor	No available	information	No information	ntion No infor available		ion	No information available		-	
Water-a	air :	No available	information	No information		informat ailable	formation No information available			-	
Soil-air		No available	information	No information				No information available		-	
12.5.	Resu	Its of PBT	and vPvB asses	ssment							
	Subs	tance(s) i	n the mixture d	o(es) not meet	the crit	eria for Pl	BT or	vPvB			
12.6.	Endo	crine disi	rupting properti	ies							
	accoi	rding to F	e/mixture does r REACH Article 5 U) 2018/605 at I	7(f) or Commis	sion De	legated re					
	2.7. Other adverse effects										
12.7.											



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

Page 14 of 17

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

13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	al:			
	Submit for disposal to the Protection.	legal person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste designa	ations according to Law:			
	Packaging that contains res	sidual hazardous substances or is contaminated with hazardous substances			
13.1.3.	Waste treatment – relevant	t 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 recommend	dations:			
	Do not dispose of the product's remains into the sewage system. Submit the remains to the co authorized by the ministry in charge. Do not dispose of the packaging into the sewage system, the packaging to the collectors authorized by the ministry in charge.				
13.1.6.	Relevant Community provis	sions:			
	-				
SECTIO	N 14. Transport information				
	Transporting/shipment by ro	ad (ADR)			
UN num	nber:	Not subject to transport regulations			
UN prop	per shipping name:				
Transpo	rt hazard class(es):	-			
Packing	group:	-			
Environr	mentally hazardous:	-			
Special	precautions for user:	-			
	Transporting/shipment by ra	il (RID)			
UN num	nber:	Not subject to transport regulations			
UN prop	per shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			
Environr	mentally hazardous:	-			



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

Page 15 of 17

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

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

SECTI	TION 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:	-				



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

Page 16 of 17

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

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

SECTIO	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:	-



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

Page 17 of 17

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

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classification		1	Classification procedure
_			-
16.5.	Rele	evant H statements (num	ber and full text)
		302	Harmful if swallowed.
		314	Causes severe skin burns and eye damage
	H:	318	Causes serious eye damage.
		331	Toxic if inhaled.
		350	May cause cancer.
		EUH031	Contact with acids liberates toxic gas.
16.6.	Trai	ning advice:	-
			** "X" in the product code marks different volumes (different packagings of the product)
16.7. Further information:		her information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario resulting to chemical safety assessment
-



Page 1 of 16

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

SECTI	FION 1: Identification of the substance/mixture and of the company/undertaking				
1.1.	Product identifier				
	Trading name: HCL REAG		ENT, P.A.S.		
	Chemical name:	-			
	Catalogue number:	HCLP-OT	HCLP-OT-X**		
1.2.	Relevant identified uses of the substance or mixture and uses advised against			ture and uses advised against	
	Uses:		For use wit	ch special staining kits in histopathology.	
	Uses advised against:		Only the ic	lentified uses are advised.	
	Reason why uses advised agains		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	r of the safet	y data sheet		
	Supplier:		BioGnost Ltd.		
	Address: Telephone number:		Medjugorska 59, Zagreb		
			+385 1 2409997		
	rerepriorie mamber.		+385 1 240999	97	
	Fax no.:		+385 1 240999		
				39	
	Fax no.:	person:	+385 1 240403	39	
1.4.	Fax no.: e-mail of competent	person:	+385 1 240403 msds@biogno	39	
1.4.	Fax no.: e-mail of competent National contact:	person:	+385 1 240400 msds@biogno -	39	
1.4.	Fax no.: e-mail of competent National contact: Emergency telephone	person:	+385 1 240400 msds@biogno -	39 ost.hr	

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 subst	ance.	-		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	atements: see Se	ection 16		
2.2.	Label elements				
	Product identification:	HCL REAGENT	, P.A.S.		
	Identification number: -				
	Authorization no.:	-			
	Hazard pictograms: -				



Page 2 of 16

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

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

SECTION 3. 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

SECTIO	CTION 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	Treat symptomatically.			
4.2.	Most important symptoms ar	nd effects, both acute and delayed			
	Following inhalation:	No information available			
	Following skin contact:	No information available			
	Following eye contact:	nformation available			



Page 3 of 16

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

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

SECTION	SECTION 5. Firefighting measures						
5.1.	Extinguishing media						
	Suitable extinguishing media: Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam						
	Unsuitable extinguishing media: water jet						
5.2.	Special hazards arising from the 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	Personal precautions, protective 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 a members without protective equipment. Remove all s sparks and ignition. Do not smoke.						
	Emergency procedures:	Mark the area using proper signs.					
6.1.2.	For emergency responders:						
	Wear protective equipment (s	ee Section 8).					
6.2.	Environmental precautions:						
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.						
6.3.	Methods and material for containment and cleaning up						
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.						



Page 4 of 16

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

6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	-		
6.4.	Reference to other section	ns		
	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	CTION 7. Handling and storage						
7.1.	Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire:		Geep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust generati	on: S	Secure proper ventilation.				
	Measures to protect the environment:		Prevent spilling into the sewage system and vaterways.				
	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:	ventila	in tightly closed and upright set containers in a well ated storage rooms, and away from sources of heat, ht, and other incompatible substances.				
	Packaging materials:	Manu	facturer's original packaging.				
	Requirements for storage rooms and vessels:		away from food and drink. Keep the containers r closed.				
	Advices for storage equipment:	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 d	ot place the unused material in the storage room o not use empty containers for storing other cals. Do not store with incompatible materials (see on 9).				
7.3.	Specific end use(s)						



Page 5 of 16

Trading name: HCL REAGENT, P.A.S.								
Product code:	P-OT-X**	T-X** Date of compilation:		14 Novem	14 November 2022 Version:			
Recomi	mendatio	ns:		-				
Industri	ial sector	specific soluti	ons:	-				
SECTION 8. Exp	osure co	ntrols/perso	nal protec	tion				
	paramet							
Substar	nce	CAS	S No	Occupational e	•	Biolo	gical limit values	
				ppm	mg/m³]		
-			_	-	-	No information available		
Substance name:								
EC No: -		CAS No:	_					
DNEL								
				Industrial				
Route of exposu	re:	Acute effect local	effe	Acute effect systemic		ic ocal	Chronic effect systemi	ic
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
Critical physical	paramete	rs: solubility, 1	lammabili	ty, corrosivity:	-			
				Consumer				
Route of exposure:		Acute effect local	effe	Acute ect systemic	Chron effect lo	-	Chronic effect systemi	ic

Dermal **PNEC**

Oral

Inhalation

_

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

_



Page 6 of 16

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

Air			No information available			
0.2						
8.2.	Exposure controls					
8.2.1.	Appropriate engineering		5			
	Substance/mixture relate measures to prevent expoduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prexposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to preexposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	oment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (E visor.				
8.2.2.2.	Skin protection					
	Hand protection:		ctive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long es (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a for organic vapors, type "A" (boiling point >65°C) acording to EN 7) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	formation available			
8.2.3.	Environmental exposure	controls				
	Substance/mixture related measures to prevent exposure:		See Section 6			
	Structural measures to prexposure:	event	Use modern equipment.			
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.			
	Technical measures to preexposure:	event	See Section 6			

SECTION 9. Physical and chemical properties



Page 7 of 16

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

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

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

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



Page 8 of 16

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

Acute toxi	city:					
Route of exposure:	xposure: Method S		Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time		Results
Oral exposure:	No information available	-	LD ₅₀	-		-
Dermal exposure:	No information available	available - LD ₅₀ -			-	
Inhalation exposure:	No information available	-	LC ₅₀	_	***************************************	-
Specific ta	rget organ toxicity – si	ingle exposure (STOT SE):			
	Specif	ic effects	Target	organ		Note
Oral exposure:	No information	available	No information	on available	-	
Dermal exposure:	No information	available	No information	on available	-	
			No information available -			
Inhalation exposure	e: No information	available	No information	on available	-	
•	1			on available	-	
Inhalation exposure Aspiration	1		No information	on available	-	
Aspiration	1			on available	-	
Aspiration	hazard:			on available Method	-	Note
Aspiration	hazard: nd corrosion:	No info	rmation available	Method	-	Note
Aspiration Irritation a	hazard: nd corrosion: Exposure time	No info	rmation available Evaluation	Method -		Note
Aspiration Irritation a Skin irritation:	hazard: nd corrosion: Exposure time	No info	rmation available Evaluation -	Method -	-	Note
Aspiration Irritation a Skin irritation:	hazard: nd corrosion: Exposure time	No info	rmation available Evaluation -	Method -	-	Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitization	hazard: nd corrosion: Exposure time	Species	rmation available Evaluation -	Method -	-	Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitization	hazard: nd corrosion: Exposure time - -	Species lable	rmation available Evaluation -	Method -	-	Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure:	hazard: nd corrosion: Exposure time - - No information avail	Species lable	Evaluation -	Method - -	-	Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure: Symptoms	hazard: nd corrosion: Exposure time - - On No information avail No information avail	Species	Evaluation -	Method - -	-	Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure:	hazard: nd corrosion: Exposure time - - No information avail No information avail	Species	Evaluation -	Method - -	-	Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure: Symptoms Oral exposure:	hazard: nd corrosion: Exposure time On No information avail No information avail related to the physica No information avail No information avail	Species	Evaluation -	Method - -	-	Note



Page 9 of 16

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

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

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



Page 10 of 16

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

Chronic	inhalation	No informa	tion available	No information available	-		
	CMR effects ((carcinogenicity	; mutagenicity; repr	oductive toxicity)			
	Carcinogenic	ity:	Based on availa	ble data, the classification criteria a	are not met.		
	Mutagenicity	in-vitro:	Based on availa	ble data, the classification criteria a	are not met.		
	Genotoxicity:		Based on availa	ble data, the classification criteria a	are not met.		
	Mutagenicity	in-vivo:	Based on availa	ble data, the classification criteria a	are not met.		
	Germ cell mu	tagenicity:	Based on available data, the classification criteria are not met.				
	Reproductive	toxicity:	Based on available data, the classification criteria are not met.				
	Summary of e	evaluation of th	e CMR properties:	-			
11.2.	Information of	on other hazard	s:				
11.2.1.	Endocrine dis	rupting proper	ties:				
	No known endocrine disrupting properties that affect human health.						
11.2.2.	Other inform	ations:					
	_						

SECTION 12. Ecological information

12 1	T = 1, 1; =: 4, 1	
1/ 1	Toxicity	

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	1	
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-	



Page 11 of 16

Trading nam	e:				HCL REA	GEN	T, P.A.S.				
Product cod	e:	HCLP-OT-X	* *	Date of compilation:		1.	14 November 2022		Vers	ion:	4
Algae/aquatic plants		IC ₅₀	72 hours		ırc		available		ormation -		
Other organis	ms	_	-		-	-		-		-	
12.2. Persi	stence :	and degrada	bility								
		adation									
·	De	gradation ha	lf-lives		Method		Ev	aluation			Note
Marine water	No in	formation av	ailable	No	information availa	able	No informat	tion avai	lable	-	
Fresh water	No in	ıformation av	ailable	No	information availa	able	No informat	tion avai	lable	-	
Air	No in	formation av	ailable	No	information availa	able	No informat	tion avai	lable	-	
Soil	No in	formation av	ailable	No	information availa	ble	No informat	tion avai	lable	-	
	egradat		,						-		
% Degradation		Time (day		Method No information			Evaluation			lote	
No informatic available		ailable					o information vailable		o informa vailable	ation	
40.2 B'											
		etive potentia er partition o		t (log	Kowi						
Value			рН	°C			Evaluati	on		Note	٠
		•		No information		nn				IVOL	
_	availab		-	-	available	211	available		-		
r:		-+: · · ·	DCE)								
Value	ncentr	ation factor (Speci			Method	0 0 0 0 0 0 0	Evaluation		N	loto	
No informatio	n l		es formatior			N	No information		Note No information		n
available available					available		available				
				····							



No adverse effects are expected.

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

Page 12 of 16

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

Product	code: H	CLP-OT-X**	Date of co	mpilation	: 14 Nc	vember	2022	Versio	n: 4
	Value	Dose	Exposure time	Species	Met	thod	Evaluat	ion	Note
Chronic t	oxicity on fish	LC ₅₀	information i	No nformatio available	No n inform availab	1	No informatio available	on -	-
	oxicity on (<i>Daphnia</i>)	EC ₅₀	information i	No nformatio available	No n inform availab		No informatio available	on -	_
12.4.	Mobility in so	il							
	Known or pre	dicted distributi	ion in environmer	ntal compa	artments:				
	No informatio	n available							
	Surface tensio	on:							
	Value	°C	Concentration	on	Metho	od		Note	9
i	No nformation available	No information available	No information		nformatio lable	_			
	Adsorption / o	desorption							
Transport	†	coefficient o's constant	log Kow	Evapora	ation rate	Me	thod		Note
Soil-wate	r No available	information	No information available	No info availabl	rmation e	No info availabl	rmation e	-	
Water-air	No available	information	No information available	No info availabl	rmation e	No info availabl	rmation e	-	
Soil-air	No available	information	No information available	No info availabl	rmation e	No info availabl	rmation e	-	
12.5. I	Results of PRT	and vPvB asses	ssment						
	No information		5511101110						
12.6.	Endocrine disi	rupting propert	ies						
			ng properties tha	at affect th	e environn	nent.			
		'	<u> </u>						
12.7.	Other adverse	e effects							
	NI l	CC +	4						



Page 13 of 16

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

SECTION	N 13. Disposal considerat	ions
13.1.	Waste treatment metho	
15.1.	waste treatment metho	us
13.1.1.	Product/Packaging disp	osal:
	Submit for disposal to the Protection.	ne legal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste desi	gnations according to Law:
	No information available	
13.1.3.	Waste treatment – relev	ant information:
	No information available	
13.1.4.	Sewage disposal – relev	ant information:
15.1.4.	3 .	
	waste must not be disp	osed of into the sewage system.
13.1.5.	Other disposal recomme	endations:
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors cry in charge. Do not dispose of the packaging into the sewage system. Submit electors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community pro	ovisions:
	-	
SECTIO	N 14. Transport informati	
	Transporting/shipment by	
UN num		Not subject to transport regulations.
······································	per shipping name:	
	rt hazard class(es):	
Packing group:		
	mentally hazardous:	
Special	orecautions for user:	- (200)
	Transporting/shipment by	Not subject to transport regulations.
UN number:		



SAFETY DATA SHEET

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

Page 14 of 16

Trading name:		HCL REAG	ENT, P.A.S.		
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version:	4
Transport hazard c	·lass(es):	_			
Packing group:		-			
Environmentally ha	azardous:	-			
Special precaution		_			
	terway transport (AD	DN)			
UN number:		Not subject to transport	regulations.		
UN proper shippin	g name:	-			
Transport hazard c		_			
Packing group:		_			
Environmentally ha	azardous:	_			
Special precaution		_			
	ing/shipment by sea	(IMDG)			
UN number:		Not subject to transport	regulations.		
UN proper shippin	g name:	-			
Transport hazard c	:lass(es):	-			
Packing group:		-			
Environmentally ha	azardous:	-			
Special precaution	s for user:	-			
Transport	ing/shipment by air	(ICAO-TI/IATA-DGR)			
UN number:		Not subject to transport	regulations.		
UN proper shippin	g name:	-			
Transport hazard class(es):		-			
Packing group:		-			
Environmentally hazardous:		-			
Special precaution	s for user:	-			
Further information	n: The product	is not subject to classification	on.		

SECTIO	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:	-	



Page 15 of 16

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

		Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and
		Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;
	Other EU regulations:	Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;
		Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;
		Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 1999 guideline)	9/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessmen	t
	None	

SECTIO	SECTION 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	_			
10.5.	source of data:				
16.4. Classification and procedure use 1272/2008 (CLP)		sed to derive the	classification for mixture according to Regulation (EC)		
Classific	Classification C		Classification procedure		
_		_			



SAFETY DATA SHEET

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

Page 16 of 16

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

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

ANNEX: Exposure scenario resulting to Chemical safety assessment



Page 1 of 17

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

1.1.	Product identifier				
	Trading name:	HEMATO	OXYLIN ML		
	Chemical name:	-			
	Catalogue number:	HEMML	HEMML-OT-X**		
1.2.	Relevant identified use	es of the su	ubstance 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 advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier: Bio		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number: +		+385 1 24099	+385 1 2409997	
	Fax no.: +:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biogn	msds@biognost.hr	
	National contact:		-		
1.4.	Emergency telephone number				
	National Protection ar	nd Rescue	Directorate:	112	
	Medical information:			. 205 1 2240 242	
	Medical information:			+385 1 2348 342	

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regul	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and cate	Hazard class and category code: Hazard statements*:				
	Eye Irr. 2 H319					
2.1.2.	Additional information					
	-					
*For ful	I text of Hazard- and EU Hazard-sta	atements: see Section	16			
2.2.	Label elements					
	Product identification:	HEMATOXYLIN ML				
	Identification number:	-				
	Authorization no.:	-				



Page 2 of 17

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

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



Page 3 of 17

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

Self-protection of the first aider: Treat symptomatically.			
4.2.	Most important symptoms and effects, both acute and delayed		
	Following inhalation:	No information available	
	Following skin contact:	No information available	
	Following eye contact:	Risk of blindness, Risk of serious damage to eyes.	
	Following ingestion:	No information available	
4.3.	te medical attention and special treatment needed		
-			

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, 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	per protective equipment, including respiratory protection.			
5.4.	Additional information				
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment: Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Do not enter fire area without prope	er 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 containm	ent and cleaning up			



Page 4 of 17

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

6.3.1.	Bunding, covering of drains; capping procedures:	Covering of drains. Take up mechanically.
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	Place in appropriate containers for disposal.
6.4.	Reference to other sections	
	See Section 7 for information	about secure handling.
	See Section 8 for information	about personal protective equipment.
	See Section 13 for information	n 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. T	horoughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated place.			
	Packaging materials:	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)				



Marine sediments

Soil (agricultural)

Microorganisms in sewage treatment

Food chain

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

									Page 5 of	17
Trading name:						HEMA	TOXYLIN ML		-	
Product cod	e:	HEMMI	OT-X**	R	Revisio	on date:	27.03.2023.		Version:	9
Dane										
		ndations:	· C· 1 .·			-				
Indu	istriai	sector spe	ecific solutio	ns:		-				
SECTION 8. E	vnosi	ure contr	ols/nerson:	al protec	tion					
		rameters	ois/persoria	ii protec						
0.1.	ti Oi pe	iranie ters			00	cupation	al exposure limit			
Substance C		CAS I	No		•	ort term values	E	Biological limit v	alues	
3333131133						ppm	mg/m³			
-		-			-	-	No ir	nformation avail	able	
Substance name:	Alun	ninium su	lphate octa	decahydı	rate					
EC No:	233-	-135-0	CAS No:	77	84-31	-8				
DNEL										
					Inc	dustrial				
Route of		A	Acute		Acute	9	Chronic		Chron	ic
exposure:		effe	ect local	effe	ct syst	temic	effect local		effect syst	temic
Oral		-		-			-		-	
Inhalation		-		-			-		13,4 mg/m ³	
Dermal		-		-			_		3,8 mg/kg bw,	/day
Critical physic	al par	ameters:	solubility, fla	ımmabili	ty, cor	rosivity:	-			
		_			Co	nsumer				
Route of			Acute		Acute		Chronic		Chron	
exposure:		effe	ect local	effe	ct syst	temic	effect local		effect syst	temic
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-			-		-	
PNEC										
Environmenta	l prot	ection tar	get			PNEC				
Fresh water						No infor	mation available			
Freshwater se	dimer	nts				No infor	mation available			
Marine water				No information available						

No information available

No information available

No information available

No information available



Page 6 of 17

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

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

SECTIO	N 9. Physical and chemical properties		
9.1.	Information on basic physical and cher	mical properties	
		Value	Method



Page 7 of 17

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

	Physical state:	liquid	No information available
	Color:	dark red	No information available
	Odour/odour threshold:	glycerol like/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	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
.2.	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	DN 11. Toxicological information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
	Acute toxicity:



Page 8 of 17

	HEMAT	OXYLIN ML		
HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9
	HEMML-OT-X**		HEMML-OT-X** Revision date: 27.03.2023.	

Product code:	HEMML-OT-X**	Revision date:	: 27.03.2023.		Version: 9
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or	Exposui time	re Results
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	rget organ toxicity – singl	•	1		
	Specific	effects	Target organ		Note
Oral exposure:	Oral exposure: No information avai		No information available		-
Dermal exposure:	No information avai	ilable	No information available		-
Inhalation exposure	e: No information avai	ilable	No information available		-
Respirator	y irritation:	No information av	ailable		
Irritation a	and corrosion				
l l	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	-	-	-	
Eye irritation:	_	-	-	- C	auses serious eye damage
Sensitizati					
Dermal exposure:	No information available				

Sensitization						
Dermal exposure:	No information available					
Inhalation exposure: No information available						
Symptom	s related to the physical, chemical and toxicological characteristics					
Oral exposure:	No information available					
Dermal exposure:	Dermal exposure: No information available					



Page 9 of 17

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

Inhalation expos	ure:	No informati	on available					
Eye exposure:		Causes serio	us eye damage	9				
Repeat	ed dos	se toxicity (sub	oacute, subchr	onic, chronic)				
		Dose	Exposure time	Species	Method	Evaluation	า	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No inform	nation	-
Subacute dermal	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No information available		-
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available		-
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Specific	targe	t organ toxici	ty – repeated e	•	-			
			Specific effect	:S	Target or			Note
Subacute oral			tion available		No information		-	
Subacute derma			tion available		No information available		-	
Subacute inhalat	tion		ition available		No information		-	
Subchronic oral		No informa	ition available		No information	available	_	



Page 10 of 17

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

Subchronic dermal		No information avai	lable	No information available	-		
Subchro	onic inhalation	No information avai	lable	No information available	-		
Chronic	oral	No information avai	lable	No information available	-		
Chronic	dermal	No information avai	lable	No information available	-		
Chronic	inhalation	No information avai	lable	No information available	-		
	CMR effects (carcinogenicity, mutag	enicity, reproduct	ive toxicity)			
	Carcinogenici	ty:	No information	available			
	Mutagenicity <i>in-vitro:</i> Genotoxicity: Mutagenicity <i>in-vivo</i> :		No information available No information available No information available				
	Germ cell mut	agenicity:	No information available				
	Reproductive	toxicity:	No information available				
	Summary of e	valuation of the CMR	properties:	-			
11.2.	Information o	n other hazards:					
11.2.1.	Endocrine dis	rupting properties:					
	No known properties that	endocrine disrupt It affect human health.	•				
11.2.2.	Other informa	ations:					

SECTION	12. Ec	ologica	I inforn	nation
----------------	--------	---------	----------	--------

Toxicity 12.1.

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



Page 11 of 17

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

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	ECHA	>1.000 mg/l (aluminium sulphate octadecahydrate)	-

Persistence and degradability 12.2.

Abiotic degradation

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

Bioaccumulative potential 12.3.

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

Malua	Camaantustian	-11	۰,۲	Mathaad	F	NI-t-
Value	Concentration	рН	°C	Method	Evaluation	Note
-	No information available	-	-	No information available	No information available	-



Page 12 of 17

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

V	alue		Species		Meth	hod	Eva	lluation		Not	:e
	lo information No information vailable available		nation	on No information available		No information available			No information available		
	Chronic	ecotox	icity								
	Value		Dose		osure me	Species	Meth	od	Ev	aluation	Note
Chronic	toxicity or	n fish	LC ₅₀	No inforr availa	nation i	No nformat on available	No inform available	ation	No info	ormation ble	-
	toxicity or ea (<i>Daphni</i>		EC ₅₀	No inforr availa	nation i	No nformat on available	No inform	ation	No info	ormation ble	_
		mation	icted distribut n available n:	ion in e	environme	ntal com	partments:				
	Value		°C		Concen	tration	Meth	od		Note	
	No informat available	ion	No inform available	nation	No inforr available		No inform available	ation	-		
	Adsorpti	on / de	esorption								
Transpo	ort	-	pefficient s constant	lo	g Kow	Evapo	ration rate	М	lethod	N	lote
Soil-wa	ter No avai	lable	information	No in availa	formation ble	No info	ormation le	No infa	ormatio ole	n -	
Water-a	air No avai	lable	information	No in availa	formation ble	No info	ormation le	No info	ormation ole	n -	
Soil-air	No	lable	information	No in availa	formation	No info	ormation	No infa	ormatio	n _	



Page 13 of 17

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

12.5.	Results of PBT and vPvB assessment
12.5.	No information available
	The information dvaluable
12.6.	Endocrine disrupting properties
	No known endocrine disrupting properties that affect the environment.
12.7.	Other adverse effects
12.7.	No adverse effects are expected.
	no auverse 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.	Western de de designations according to Laure
13.1.2.	Waste codes/waste designations according to Law: No information available
	NO IIIIOITTIALIOIT AVAIIADIE
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:
	-
CECT: C	
SECTIO	N 14. Transport information



Page 14 of 17

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

UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by	rail (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 transpor	t (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:	-



Page 15 of 17

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

Further information:	The product is not subject to classification.
ruftilei illioittiation.	The product is not subject to classification.

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



Page 16 of 17

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

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:	d _	
16.4.	Classification and procedure 1272/2008 (CLP)	e used to derive the classification for mixture according to Regulation (EC)	
Classific	cation	Classification procedure	
-		-	
16.5.	Relevant H statements (num	nber and full text)	
	H: 318	Causes serious eye damage.	
	319	Causes serious eye irritation.	
16.6.	Training advice:	-	
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX: Exposure scenario resulting to Chemical safety assessment
-



Page 1 of 16

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

SECTI	ON 1 IDENTIFICATION (OF THE SUB	STANCE/MI	IXTURE AND OF THE COMPANY/UNDERTAKING
1.1.	Product identifier			
	Trading name:	PERIODIC	ACID, 0.8 %	SOLUTION
	Chemical name:	-		
	Catalogue number:	PK08-OT-	X**	
1.2.	Relevant identified use	es of the sub	stance or mi	xture and uses advised against
	Uses:		For use w	ith special staining kits.
	Uses advised against:		Only the i	dentified uses are advised.
Reason why uses advised against: medical device,		uct is intended for use only as an <i>in vitro</i> diagnostic levice, 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 safet	y data sheet	
	Supplier:	ŀ	BioGnost Ltd.	
	Address: N		Medjugorska	59, Zagreb
	Telephone number: +		-385 1 2409997	
	Fax no.: +		+385 1 2404039	
	e-mail of competent person: <u>m</u>		msds@biognost.hr	
	National contact:	-		
1.4.	Emergency telephone	Emergency telephone number		
	National Protection an	ıd Rescue Di	rectorate:	112
	Medical information:			+385 1 2348 342
	Other information:			-

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



Page 2 of 16

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

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	Endocrine Disrupting Properties	s:
	No known endocrine disrupting p	properties
	Results of PBT and vPvB assessi PBT or a vPvB.	ment : 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)		
-	_	-	-	-		

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



Page 3 of 16

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

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

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

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



Page 4 of 16

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

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

SECTIO	ECTION 7 HANDLING AN STORAGE						
7.1.	Precautions for safe handling						
7.1.1.	.1. Protection measures						
	Measures to prevent fire:	Keep aw not smo	ay from sources of heat and ignition. Do ke.				
	Measures to prevent aerosol and dust generati	n: Secure p	roper ventilation.				
	Measures to protect the environment:	Prevent : waterwa	spilling into the sewage system and ys.				
	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:	ventilated sto	y closed and upright set containers in a well rage rooms, and away from sources of heat, other incompatible substances.				
	Packaging materials:	Manufacturer's original packaging.					
	Requirements for storage rooms and vessels:	Keep away fro	om food and drink. Keep the containers				
	Advices for storage equipment:	The storage must be made of hard material; flood be resistant to chemicals. There must be no drain 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)						



Page 5 of 16

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

Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION										
	rol para		TROES/TER	JOHAL	ı koı	LCTION				
Substance					rupational exposure limit slues/short term values			Bio	ological limit values	
						ppm	mg/m³			3
-			-			-		-	No infor	mation available
Substance name:	-									
EC No:	_		CAS No:	_						
DNEL										
					Inc	lustrial				
Route of		A	Acute		Acut	e		Chron	ic	Chronic
exposure:		effe	ect local	effe	ct sys	temic		effect lo	ocal	effect systemic
Oral		-		-			-	-		-
Inhalation		-		-			-			-
Dermal		-		-			-			-
Critical physic	al parar	neters: s	solubility, fla	mmabilit	ty, cor	rosivity:		-		
		1		T	Coı	nsumer				
Route of			Acute		Acut			Chron		Chronic
exposure:		effe	ect local effect		ect sys			ocal	effect systemic	
Oral		-		-			-			-
Inhalation		-		-			-		-	
Dermal		-		-			-			-
PNEC						2012				
Environmenta	I proted	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					



Page 6 of 16

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

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



Page 7 of 16

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

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

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

SECTION 11 TOXICOLOGICAL INFORMATION



Page 8 of 16

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

		1	:			:
11.1. Informatio	n on hazard classes as	defined in Reg	ulation (EC) No 12	72/2008		
Route of exposure:		Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure	time	Results
Oral exposure:	No information available	_	LD ₅₀	-		-
Dermal exposure:	No information available	-	LD ₅₀	-		-
Inhalation exposure:	No information available	-	LC ₅₀	_		-
Specific ta	rget organ toxicity – si	ngle exposure (STOT SE):			
	Specifi	c effects	Targe	t organ		Note
Oral exposure:	No information a	available	No informati	on available	-	
Dermal exposure:	No information a	available	No informati	on available		
Inhalation exposure	e: No information a	available	No informati	on available	-	
	y irritation: nd corrosion	No info	rmation available			
11110000110	Exposure time	Species	Evaluation	Method		Note
Skin irritation:	-	rabbit	-			
Eye irritation:	-	rabbit	-			
Sensitizatio	on					
Dermal exposure:	No information avail	able				
Inhalation exposure:	No information available	able				
Symptoms	related to the physica	l, chemical and	toxicological chara	acteristics		
Oral exposure:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.					
Dermal exposure:			ure, resorption effe ingling sensation o		ely. Lon	g-term exposure



Page 9 of 16

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

Inhalation expos	IIro:		large amount eezing, heada			dequately vent	ilated perimete	r may cause
Eye exposure:	Direc sensa	-	ontact may cau	se slight to	mode	erate irritation,	lacrimation and	burning
Repeate	ed dose toxic	ity (sub	acute, subchro	onic, chroni	c)			
	Dose		Exposure time	Species		Method	Evaluation	Note
Subacute oral	No inforr available	mation	No information available	No information available	on	No information available	No information available	-
Subacute dermal	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Subacute inhalation	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Subchronic oral	No inforr available	mation	No information available	No information available	on	No information available	No information available	-
Subchronic dermal	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Subchronic inhalation	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Chronic oral	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Chronic dermal	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Chronic inhalation	No inforr available	mation	No information available	No information available	on	No information available	No information available	-
Specific	target organ	n tovicit	y – repeated e	vnosuro (S	TOT D	Ε).		
Specific	target organ		pecific effects	vhosnie (2	101 10	Target org	an	Note
Subacute oral	No		ation available		No ir	No information available -		
Subacute derma			ntion available			formation ava		
Subacute inhalat	ion No	informa	ntion available		No in	formation ava	ilable -	



Page 10 of 16

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

Subchro	onic oral	No information	n available		No informatio	n availabl	e	_	
Subchro	onic dermal	No information	n available	available No information available		e	_		
Subchro	onic inhalation	No information	n available		No informatio	n availabl	e	-	
Chronic	oral	No information	n available		No informatio	n availabl	e	-	
Chronic	dermal	No information	n available		No informatio	n availabl	e	-	
Chronic	Chronic inhalation No informatio				No informatio	n availabl	e	-	
	CMR effects (c	carcinogenicity, m	utagenicity, r	reproduct	ive toxicity)				
	Carcinogenicit					not indica	ate carcin	ogenic effects.	
	Mutagenicity i				s did not ind				
	Genotoxicity:	No informa				- 9			
	Mutagenicity i	Current <i>in vivo</i> tests did not indicate mutagenic effects.							
	Germ cell mutagenicity:			No information available					
	Reproductive t	No toxicity organs.	on repr	oductive org	ans was	determine	ed in reproductiv		
11.2		valuation of the (CMR propertion	es: -					
11.2.1.		upting properties							
	The substant contain command have endocring to Commission E 2017/2100 or	nce/mixture do ponents consid ne disrupting p REACH Article Delegated regula Commission Re 5 at levels of	es not ered to roperties 57(f) or tion (EU) egulation						
11.2.2.	Other informa	tions:							

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



Page 11 of 16

Trading name:	PERIODIC ACID, 0.8 % SOLUTION							
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	-

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

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



Page 12 of 16

Tradin	g name:	•			PER	PERIODIC ACID, 0.8 % SOLUTION						
Produc	ct code:	PK	08-OT-X*	·*	Date of compilation:		on: 2	n: 21 Dec 2022		Versi	on: 4	
-	N av	o info	ormation	-		No info	ormation le		inform ailable	ation	-	
	Biocon	centration	on factor (BCF)							1	
V	/alue		Speci	es	1	Method	k	E	valuatio	on		Note
No info	ormation le	No ava	in [.] ilable	formatio	n No info availab		on	No inf availal	formation ble	on	No inforr available	mation
	Chronic	c ecotox	icitv									
	Value		Dos	se E	xposure time	Spo	ecies	Met	hod	Eva	luation	Note
Chronic	c toxicity on fish LC ₅₀		inf			mation able	No inform availal		No info	ormation ble	-	
	c toxicity ea (<i>Daph</i>		EC ₅₀	1	ormation ailable	No infori availa	mation able	No inform availal		No information - available		-
12.4.	Mobilit	ty in soil										
	1		icted distr	ibution ir	n environm	nental d	compart	ments:				
			available									
	Surface	e tensior	1:									
	Val	ue	°C		Concentra	ation		Meth	od		N	ote
	No informa availab	ation	No informatio available	าก	lo informa vailable	ition	No infavailat	ormatic ole	on	-		
	Adsorn	otion / de	esorption									
Transpo	-	A/D c	oefficient s constant		log Kow	Ev	/aporati	on rate		Method		Note
Soil-wa	ater N	0 vailable	informat		information		o inform	ation	No ir	nformati	on -	



Page 13 of 16

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

	t code.	0 01 X	Date 0.	compliation. 2	T Dec 2022	version. 4		
Water-a	ir No available	information	No information available	No information available	No information available	-		
Soil-air	air No information available		No information available	No information available	No information available	-		
12.5.	Results of PBT ar							
	according to REA	ACH Article 5	•	n Delegated regula	to have endocrine o	disrupting properties 0 or Commission		
12.6.	Endocrine disrup	oting properti	es					
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.							
12.7.	Other adverse ef	ffects						
	No information a	available						
SECTIO	N 13 DISPOSAL (CONSIDERAT	TIONS					
13.1.	Waste treatme	ent methods						
13.1.1.	Product/Packa	ging disposa	:					
	Submit for disp Protection.	posal to the l	egal person autho	rized by the Minist	ry of Environmenta	l and Nature		
13.1.2.	Waste codes/v	waste designa	tions according to	Law:				
	No information		<u> </u>					
13.1.3.	Waste treatme	ent – relevant	information:					
	No information	n available						
13.1.4.	Sewage dispos	sal – relevant	information:					
			d of into the sewa	ge system.				
12.15	Oth I'	l	- .					
13.1.5.	Other disposal	recommend	ations:					



Page 14 of 16

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

	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors cry in charge. Do not dispose of the packaging into the sewage system. Submit electors authorized by the ministry in charge. Do not dispose of in places where				
13.1.6.						
	-					
SECTIO	N 14 TRANSPORT INFORI	MATION				
	Transporting/shipment by	road (ADR)				
UN num		Not subject to transport regulations.				
UN pro	per shipping name:					
	ort hazard class(es):	-				
Packing		-				
······	mentally hazardous:	-				
	precautions for user:	-				
•	Transporting/shipment by	rail (RID)				
UN nun		Not subject to transport regulations.				
UN pro	per shipping name:					
Transpo	ort hazard class(es):	-				
Packing	group:	-				
Environ	mentally hazardous:	-				
Special	precautions for user:	-				
	Inland waterway transport	(ADN)				
UN num	nber:	Not subject to transport regulations.				
UN proj	per shipping name:	-				
Transpo	ort hazard class(es):	-				
Packing	group:	-				
Environ	mentally hazardous:	-				
Special	precautions for user:	-				
	Transporting/shipment by	sea (IMDG)				
UN num	nber:	Not subject to transport regulations.				
UN proj	per shipping name:	-				
Transpo	ort hazard class(es):	-				
Packing	group:	-				
Environ	mentally hazardous:	-				
Special	precautions for user:					



Page 15 of 16

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

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

5.1. Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
EU regulations	
Authorization and/or res	trictions 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);



Page 16 of 16

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

	National legislation:	Chemicals Act, Regulation on 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	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 us 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: t	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

Λ	N	N	П	ᆮ	Y	
$\overline{}$		н	ч	ᆫ	Л	

Exposure scenario resulting to Chemical safety assessment

-



Page 1 of 17

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.		CODILIN	4	TE COLLITION		
	Trading name:	SODION	I METABISULFI	TE, SOLUTION		
	Chemical name:	-	-			
	Catalogue number:	NM-OT-	-X**			
1.2.	Relevant identified us	es of the su	ubstance or mi	xture and uses advised against		
	Uses:		For use w	ith special staining kits.		
	Uses advised against:		Only the i	dentified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address: M		Medjugorska 59, Zagreb			
	Address:		Medjugorska	59, Zagreb		
	Address: Telephone number:		Medjugorska +385 1 24099			
				997		
	Telephone number:	person:	+385 1 24099	997 939		
	Telephone number: Fax no.:	person:	+385 1 24099 +385 1 24040	997 939		
1.4.	Telephone number: Fax no.: e-mail of competent		+385 1 24099 +385 1 24040	997 939		
1.4.	Telephone number: Fax no.: e-mail of competent National contact:	number	+385 1 24099 +385 1 24040 msds@biogno	997 939		
1.4.	Telephone number: Fax no.: e-mail of competent National contact: Emergency telephone	number	+385 1 24099 +385 1 24040 msds@biogno	997 939 ost.hr		

CECTIC	SECTION 2. Hazards identification					
SECTIO	N 2. Mazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to R	Regulation (EC) No 1272/20	08 (CLP)			
	Hazard class and	Hazard class and category code: Hazard statements*:				
	Eye Irr. 2		H319			
2.1.2.	Additional information	Additional information				
	-	-				
*For fu	ll text of Hazard- and EU Hazar	rd-statements: see Section	16			
2.2.	Label elements					
	Product identification:	SODIUM METABISUL	FITE, SOLUTION			
	Identification number:	Identification number: -				
	Authorization no.:	-				



Page 2 of 17

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	ties:
	No known endocrine disruptin	g properties
	Results of PBT and vPvB asse 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			

SECTION	SECTION 4. First aid measures			
4.1.	Description of first aid measure	s		
	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.		



Page 3 of 17

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

	Following ingestion:		Rinse mouth. Call a doctor if you feel unwell.		
	Self-protection of the first aider:		Treat symptomatically.		
4.2.	Most important symptom	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 immedia	any immediate medical attention and special treatment needed			
	-				

SECTIO	N 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 s	ubstance or mixture
	Hazardous combustion products:	No information available
5.3.	Advice for firefighters	
	Do not enter fire area without pro	per protective equipment, including respiratory protection.
5.4.	Additional information	
	Remove sources of heat and ignit Do not contaminate the environm	

SECTIO	ON 6. Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	1.1. For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. 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, drain Protection and Rescue Directorate	nage system and waterways. In case of large spillage contact National e (NPRD) on 112.		



Page 4 of 17

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 See Section 8 for information See Section 13 for information	about personal protective equipment.

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. T	horough	lly wash hands after work and before eating.		
7.2.	Conditions for safe storage, including any inco	mpatibili	ities		
	Technical measures and storage conditions:	•	n tightly closed and upright set containers in a well ted place.		
	Packaging materials:	Manufa	facturer's original packaging.		
	Requirements for storage rooms and vessels:		away from food and drink. Keep the containers closed.		
	Advices for storage equipment:	be resis	orage must be made of hard material; floors must stant to chemicals. There must be no drain that releads into sewage system. Secure proper tion.		
	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).		



Page 5 of 17

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

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

8.1. Control par			al protec	tion				
8.1. Control parameters Substance		Oc			cupational exposure limit values/short term values		Biological limit values	
Substance					ppm	mg/m³		3
-		-			-	-	No ir	nformation 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	-	et local	-	ct sys	terric	-		-
Inhalation	_		_			-		-
Dermal	-		-			-		-
Critical physical para	meters:	solubility, fla	mmabili	ty, coı	rosivity:	-		
				Co	nsumer			
Route of	A	Acute		Acute	9	Chronic		Chronic
exposure:	effe	ect local	effe	ct syst	temic	effect local		effect systemic
Oral	-		-			-		-
Inhalation	-		-			-		-
Dermal	-		-			-		-
PNEC					1			
Environmental protection target		PNEC						
Fresh water		No information available						
Freshwater sediments			No information available					
Marine water			No information available					
Marine sediments						rmation available		
Food chain						rmation available		
Microorganisms in se	ewage tr	eatment			No information available			



Page 6 of 17

Trading name:		SODIUM METAB	SULFITE, 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 relate measures to prevent expoduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prexposure:	event	No information available			
	Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.			
		event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	nal protection equipment				
8.2.2.1. Eve and face profession:			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:		antistatic clothing made of natural fibers (such as cotton) with long es (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	In cas	e of inadequate ventilation wear respiratory protection.			
8.2.2.4.	Thermal hazards:	No in	formation available			
8.2.3.	Environmental exposure	controls				
	Substance/mixture relate measures to prevent expe		See Section 6			
	Structural measures to prexposure:	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 prexposure:	event	See Section 6			

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties



Page 7 of 17

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

SECTIO	N 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.



Page 8 of 17

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

Acute tox	icity:				
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposi time	RACILITE
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 – sin	gle exposure (STO	ΓSE):		
	Specifi	c effects	Targ	et organ	Note
Oral exposure:	No information av	No information available			-
Dermal exposure:	No information av	No information available			-
Inhalation exposure	e: No information av	No information available		nation	-
Respirato	ry irritation:	No information	available		
	,				
Irritation a	and corrosion				
	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	-	-	_	
Eye irritation:	-	-	-	_	Causes serious eye damage
Sensitizat	ion				
Dermal exposure:	No information availab	ole			
Inhalation exposure:	No information availab	ole			
		ah anaka 1 anta a		. · · · ·	
	s related to the physical,		cological chara	acteristics	
Oral exposure:	No information avai				
Dermal exposure:	No information avai				
Inhalation exposure	e: No information avai	lable			



Page 9 of 17

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

Repeat	ed dose toxicity (su	bacute, subchr	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluation	۱	Note
Subacute oral	No information available	No information available	No information available	No information available	No inform available	nation	-
Subacute dermal	No information available	rmation No No No information available No information available No information available No information available		nation	-		
Subacute inhalation	No information available	No information available	No information available	No information available	No inform	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 inform available	nation	-
Chronic inhalation	No information available	No information available	No information available	No information available	No inform available	nation	-
-							
Specific	target organ toxic	<u> </u>	•				
		Specific effect	ts	Target or			Note
Subacute oral		ation available		No information available		-	
Subacute derma		ation available		No information available		-	
Substranis and		ation available		No information		-	
Subchronic oral Subchronic derm		ation available		No information available - No information available -			



Page 10 of 17

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

Subchro	onic inhalation	No information ava	ilable	No information available	-			
Chronic	oral	No information ava	ilable	No information available	-			
Chronic dermal No information avai		ilable	No information available	-				
Chronic	Chronic inhalation No information ava		ilable	No information available	-			
	CMR effects (c	carcinogenicity, mutag	genicity, repr	oductive toxicity)				
	Carcinogenicity:		No informa	ation available				
	Mutagenicity in-vitro:		No information available					
	Genotoxicity:		No informa	ation available				
	Mutagenicity in-vivo:		No informa	ation available				
	Germ cell mutagenicity:		No information available					
	Reproductive	toxicity:	No information available					
				,				
	Summary of e	valuation of the CMR	properties:	-				
11.2.	Information o	n other hazards:						
11.2.1.	Endocrine disr	rupting properties:						
	No known properties tha	endocrine disrup t affect human health	-					
11.2.2.	Other informa	tions:						

CECTION 12) Ecological	information
SECTION 12	z. Ecolouicai	IIIIOIIIIauoii

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	-



Page 11 of 17

									Page 11	01 17
Trading nam	e:			SOD	IUM METAI	BISUL	FITE, SOLU	TION		
Product code	e:	NM-OT-X	* *	Re	vision date:	21	Dec 2022		Version:	4
Crustacea:		EC ₅₀	48 hours		nformation lable	No ir	nformation able	No information available		-
Algae/aquatic plants		IC ₅₀	72 hours	No information available		No information available		No info availabl	rmation e	-
Other organis	ms	-	-	micr	oorganisms	No ir availa	nformation able	No info availabl		-
12.2. Persi	istence	and degrad	dability							
Abio	tic deg	radation								
	De	gradation h	alf-lives	Method		Ev	aluation		Note	
Marine water	No ir	nformation a	available	No inf	ormation avai	lable	No informat	tion avail	able	-
Fresh water	esh water No information available				ormation avai	lable	No informat	tion avail	able	-
۹ir	No ir	nformation a	available	No information available No information			tion avail	able	-	
Soil	oil No information available				No information available No information av			tion avail	able	-
Biod	egrada	ntion								
% Degradation	n	Time (da	ays)	M	lethod		Evaluation		No	te
No information available available			No information available available				o informati ailable	on		
		lative poten						:		
		efficient: n-						1		
Value		entration	рН	°C	Method		Evaluati		N	ote
_	No ir availab	nformation ble	-	-	No informat available	tion No information available		tion	-	
	oncent	ration facto	r (BCF)							
Bioc		Value Species		Method		Evaluation			Note	
i i		Spe	cies		Method		Evaluation		INC	te



Page 12 of 17

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

	Chronic eco	toxicity								
	Value	Dose	Exposure time		Species	Method		Evalua	ation	Note
Chronic	toxicity on fis	h LC ₅₀	No inforr availa	nation in	No nformat on available	No informatio available		No inform available	nation	-
	toxicity on ea (<i>Daphnia</i>)	EC50	No inforr availa	nation in	No nformat on available	No inform available	nation	No inform available	nation	-
12.4.	Mobility in s	oil								
		edicted distribut	ion in e	environme	ntal comp	partments:				
		ion available								
	Surface tens	ion:								
	Value	°C		Concen	tration	Meth	od		Note	
	No information available				No information available		No information available			
	Adsorption ,	/ desorption								
Transpo	rt í	coefficient ry's constant	lo	g Kow	Evapoi	Evaporation rate		Method		Note
Soil-wat	ter No availabl	information e	No in availa	formation ble	No info	ormation le	No inf availat	ormation ole	-	
Water-a	iir No availabl	information e	No in availa	formation ble	No info	ormation le	No inf availat	ormation ole	-	
Soil-air	No availabl	information e	No in availa	formation ble	No info	ormation le	No inf availat	ormation ole	-	
12.5.	Results of Pl	BT and vPvB asse	ccmant							
12.5.		ion available	Joinell							



Page 13 of 17

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

	No known endocrine disrupting	properties that affect the environment.			
12.7.	Other adverse effects				
	No adverse effects are expected	<u>l</u>			
	13. Disposal considerations				
13.1.	Waste treatment methods				
12.1.1	Duraturat/Darkarainan diananah				
13.1.1.	Product/Packaging disposal:	Lineare a subharinad butha Ministry of Environmental and Natura			
	Protection.	al person authorized by the Ministry of Environmental and Nature			
	1				
13.1.2.	Waste codes/waste designatio	ns according to Law:			
	No information available				
13.1.3.	Waste treatment – relevant inf	ormation:			
	No information available				
13.1.4.	Sewage disposal – relevant info				
	Waste must not be disposed o	f into the sewage system.			
13.1.5.	Other disposal recommendation				
	authorized by the ministry in c	's remains into the sewage system. Submit the remains to the collectors harge. Do not dispose of the packaging into the sewage system. Submit is authorized by the ministry in charge. Do not dispose of in places where			
13.1.6.	Relevant Community provision	ns:			
	-				
	1 14. Transport information				
<u>i</u>	Transporting/shipment by road				
UN numb		Not subject to transport regulations.			
	er shipping name:	-			
•	t hazard class(es):	-			
Packing o		-			
Environm	Environmentally hazardous: -				



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

Page 14 of 17

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

Special precautions for user:	-
Transporting/shipment by rail (F	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	1)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (I	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (IC	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: The product is	not subject to classification.

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



Page 15 of 17

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

	Authorization and/or res	strictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation an Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC an 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 organic solvents in certain paints and varnishes and vehicle refinishing products an amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safet 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 1 December 2008 on classification, labelling and packaging of substances an mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, an amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 1 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessm	ent
	None	

SECTION 16. Other infor	ion	
16.1. Indication of cha	s: -	



amended by Regulation (EU) No. 2020/878

Page 16 of 17

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

16.2. Abbreviations and acronyms:		5:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:			-		
16.4.		Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	cation	า	Classif	ication procedure		
-			-			
16.5.	Rel	evant H statements (num	ber and	full text)		
		302	Harmf	ul if swallowed.		
	H:	318	Causes	s serious eye damage.		
		319	Cause	s serious eye irritation.		
		EUH031	Contac	ct with acids liberates toxic gas.		
16.6.	Tra	ining advice:	-			
16.7.	** "X" in the product code marks different volumes (different packagings the product) We are not responsible for consequences in case of failure to comply wit 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

Page 1 of 18

Trading name:	SODIUM TETRABORATE, SOLUTION					
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7	

SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking
1.1	Product identifier			
	Trading name:	SODIUM TE	TRABORA	ATE, SOLUTION
	Chemical name:	-		
	Catalogue number:	NTB-OT-X*	*	
1.2	Relevant identified us	es of the subs	tance or m	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 advi	sed against:	device, r	duct is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes.
1.3	Details of the supplier	of the safety	data shee	t
	Supplier:		BioGnos	t Ltd.
	Address:		Medjugo	orska 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 and Rescue Dire		ectorate:	112
	Medical information:			+385 1 2348 342
	Other information:			-

SECTIO	N 2. Hazards identification						
2.1	Classification of the substance	or mixture					
2.1.1	Classification according to Reg	ulation (EC) No 12	272/2008 (CLP)				
	Hazard class and categ	ory 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 SECTION 16						
2.2	Label elements						
	Product identification:	SODIUM TETRA	BORATE, SOLUTION				
	Identification number:	-					



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

Page 2 of 18

Trading name:	SODIUM TETRABOR		RATE, SOLUTION		
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

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



Page 3 of 18

Trading name:	SODIUM TETRABORATE, S		RATE, SOLUTION		
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

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

SECTIO	N 5. Firefighting measures		
5.1	Extinguishing media		
	Suitable extinguishing media:	Carbon dioxide (CO ₂), foam, dry powder.	
	Unsuitable extinguishing media:	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		



Page 4 of 18

Trading name:		SODIUM TETRABO	RATE, SOLUTION		
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

	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.	

6.1	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personne	ı	
	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 (see Section 8).	case of inadequate ventilation use adequate airways protective equipment	
6.2	Environmental precautions:		
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Nation Protection and Rescue Directorate (NPRD) on 112.		
6.3	Methods and material for con	tainment 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.	10).		
6.4			
	See Section 7 for information	on safe handling.	
	See Section 8 for information	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		



Page 5 of 18

Trading name:		SODIUM TETRABOI	RATE, SOLUTION		
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.	
	Measures to prevent aerosol and dust generation	on: Secure proper ventilation.	
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.	
	Other measures:	Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:		
	Do not eat, drink or smoke in the workspace. Th	noroughly wash hands after work and before eating.	
7.2	Conditions for safe storage, including any incon	npatibilities	
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers 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.	
	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: -		

SECTION 8. Exposure controls/personal protection				
8.1 Control parameters				
Substance	CAS No		exposure limit t 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: -				



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

Page 6 of 18

Trading name:	rading name: SODIUM TETRABORATE, SOLUTION							
Product code:	NTB-O1	Γ-X**	Revisi	on date:	14 Noven	nber 2022	Version:	7
	:		:		3		:	
EC No:	-	CAS No						
DNEL								
			In	dustrial				
Route of	Acı	ute	Acute		Chronic		Chronic	
exposure:	effect	local	effect system	ic	effect local	ϵ	effect systemic	
Oral	-		-	-		-		
Inhalation	1900 mg (ethanol	•	-	-		_	/m³ (ethanol) /m³ (propan-2-	ol)
Dermal	-		-	-		_	/kg (ethanol) /kg bw/day n-2-ol)	
Critical physical par	ameters:	solubility,	flammability, co	rrosivity:	-			
Consumer								
Route of	A	cute	Acute		Chronic		Chronic	
exposure:	effe	ct local	effect system	ic	effect local	6	effect systemic	
Oral	-		-	-		_	kg bw/day (eth kg bw/day n-2-ol)	anol)
Inhalation	950 m (ethar	•	-	-		114 mg	/m³ (ethanol) m³ (propan-2-o	 l)
Dermal	-		-	-			/kg (ethanol) /kg (propan-2-	ol)
PNEC								
Environmental prot	ection tar	get		PNEC				
Fresh water				0.96 mg/	l (ethanol)			
Freshwater sedimer	nts			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	Air				no information available			
				1				
8.2 Exposu	ure contro	ls						
8.2.1. Appro	8.2.1. Appropriate engineering controls							



Page 7 of 18

Trading name:		SODIUM TETRABO	RATE, SOLUTION		
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

	Structural measures to prevent exposure:	Use mo	odern equipment.
	Substance/mixture related measures to prevent exposure:	See Se	ction 6
8.2.3.	Environmental exposure controls		
8.2.2.4.	Thermal hazards:		ormation available
8.2.2.3.	Respiratory protection:	inadeq (boiling	concentration level exceeds the GVI values (or because of quate ventilation), use a filter for organic vapors, type "A" g point >65°C) according to EN 14387.
	Other skin protection:	suitable cover to	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:	Full co	ntact: 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		otective gloves have to satisfy the specification of
entire face in case of higher levels of conce		of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.	
	Personal protection equipment		glasses that stick to face (EN 166) or visor in case of lower
8.2.2.	·	.posuic.	stations for rinsing eyes and showering.
	Technical measures to prevent ex	vnosura:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure
	Organizational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.
	Structural measures to prevent exposure:		In accordance with Section 7.
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.



Page 8 of 18

Trading name:		SODIUM TETRAB	ORATE, SOLUTION		
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

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

Information on basic physical and chemical properties				
		Value	Method	
	Physical state:	liquid	No information available	
	Colour:	colourless	No information available	
	Odour/odour threshold:	ethanol like/no information available	No information available	
	Melting point / freezing point:	No information available	No information available	
	Boiling point or initial boiling point and boiling range:	No information available	No information available	
	Flammability:	No information available	No information available	
	Lover and upper explosion limit:	No information available	No information available	
	Flash point:	25 ℃	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 (room temperature).	
10.3	Possibility of hazardous reactions:	No dangerous reactions known.	



Page 9 of 18

Trading name:		SODIUM TETRABO	RATE, SOLUTION		
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

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.

SECTION 11. To	oxicological infor	mation						
11.1 Informa	ation on toxicologi	cal effects						
Acute t	oxicity:							
Route of exposure:	Method	Species	Dos	se LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure 1	time	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)	
Inhalation:	- Inhalation:			LC ₅₀	4 h		>8.000 mg/l (ethanol) 37.5 mg/l (2- propanol)	
c :c:				TOT (F)				
Specific	target organ toxic		(posure (S					
	-	ecific effects		Target			Note	
Oral:	No information			No information		-	-	
Dermal:	No information	on available		No information	available	-		
Inhalation:	No information	on available		No information	available	may cau or dizzir	ise drowsiness ness	
Aspirat	ion hazard:		No infor	mation available.				
Irritatio	n and corrosion							
	Expos	ure time	Spec	ies Evaluat	ion Method		Note	
Skin corrosion/irritat	ion:		_	-	-	-		
Serious eye damage/irritatio	on -		rabbit	-	-	cause irritat	s serious eye ion	



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

Page 10 of 18

Trading name:		SODIUM TETRABORATE, SOLUTION						
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7			

Sensitiza	ation						
Skin sensitizatior	1:	No inf	ormation avail	able.			
Respiratory sensi	tization:	No inf	ormation avail	able.			
Sympto	ms related	d to the ph	nysical, chemic	al and toxicolog	jical characterist	ics	
Oral exposure:	No	informati	on available.				
Dermal exposure	: No	informati	on available.				
Inhalation exposi	ure: No	informati	on available.				
Eye exposure:	No	informati	on available.				
_							
Repeate		ose (sub	acute, subchro Exposure time	Species	Method	Evaluation	Note
Subacute oral	No info	ormation e	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available		No information available	No information available	No information available	No information available	-
Subacute inhalation	No info	ormation e	No information available	No information available	No information available	No information available	_
Subchronic oral	No info	ormation e	No information available	No information available	No information available	No information available	-
Subchronic dermal	No info	ormation e	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No info	ormation e	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 info	ormation e	No information available	No information available	No information available	No information available	-



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

Page 11 of 18

Trading name:		SODIUM TETRABORATE, SOLUTION							
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7				

Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	on	_	
Speci	fic target	organ toxicit	y – repeated e	exposure (STOT	RE):				
1 -		-	Specific effe	cts	Target o	rgan		Note	
Subacute oral		No informa	ition available		No information	n available	_		
Subacute derr	nal	No informa	ition available		No informatio	n available	-		
Subacute inha	lation	No informa	ition available		No information	n available	-		
Subchronic or	al	No informa	ition available		No informatio	n available	-		
Subchronic de	rmal	No informa	ition available		No information	n available	-		
Subchronic inl	nalation	No informa	ition available		No informatio	n available	-		
Chronic oral		No informa	ition available		No informatio	n available	-		
Chronic derma	al	No informa	ition available		No informatio	n available	-		
Chronic inhala	tion	No informa	ition available		No informatio	n available	-		
Carci Muta	effects (c nogenicity genicity <i>i</i> toxicity:	y:	y; mutagenicit	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.					
	genicity i	n vivo:		Based on available data, the classification criteria are not met.					
		agenicity:			able data, the cla				
	oductive t			Based on available data, the classification criteria are not met.					
Sumr	mary of erties:	evaluation	of the CN	MR Based on met.	available data, t	the classifica	ation	criteria are not	
11.2 Inform	mation or	other hazard	ds:						
11.2.1. Endo	. Endocrine disrupting properties:								
No kı	No known endocrine disrupting properties that affect human health.								
11.2.2. Othe	r informat	tions:							
-									

SECTION	12. Eco	logical ir	nformation
---------	----------------	------------	------------

12.1 Toxicity



Page 12 of 18

Trading name:		SODIUM TETRABORATE, SOLUTION							
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7				

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:	rea: 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 available available -

Marine water	No information available	available	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	-
	•	•	•	



Page 13 of 18

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

	1												
	Bioc	degrad	ation										
% De	egrada	ation		Time (days)		N	1ethod		Evaluation	ı		Note
-			-				-		No information available		١	-	
12.3	Bioa	accumu	ılative p	ootentia	al								
	Octa	anol-w	ater pa	rtition o	oeffic	cient (log Kow)					
Valu	ie	Cor	ncentra	tion	рŀ	1	°C	Method		Ev	valuation	1	Note
-		_			-		_	-		-			-
				i		i_	i		i				i
	Bioc	concen	tration	factor (BCF)								
Value Species					N	Method		Evaluation	on		Note		
No info	rmati	on	No		forma	ation	No info	rmation	No	information	on		
availabl	le		availa	ble		á		available		available		-	
	Chr	onic ec	otoxici	ty									
	1/2	lue		Dos		Ехр	osure	Species		Method	Eval	uation	Note
	Va	iue		DOS	se	t	ime	species	ľ	vietnou	EVall	uation	note
						No		No	No		No info	ormation	
Chronic	c toxic	ity on	fish	LC ₅₀		infor availa	mation	information available		ormation ailable	availab		-
						No	anie	No	No				
Chronic		-		EC ₅₀			mation	information		ormation		ormation	-
crustac	ea (Do	арппіа)			availa	able	available	ava	ailable	availab	le	
12.4	Mol	oility in	soil										
	Kno	wn or	predict	ed distr	ibutic	n in e	environm	ental compar	tmen	ts:			
	No	inform	ation a	vailable									
	Surf	ace te	nsion:										
	,	Value		°C		C	oncentra	ation Method			Note		



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

Page 14 of 18

Trading	g nan	ne:	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		SOD	IUM TE	TRABO	RATE	, SOLUTION	age	14 01 10	
Produc			NΊ	ГВ-ОТ-Х**		vision da			November 2022	Version: 7		7
	:			1.01.01.01.00.01								
	No information available		n	No information available	No inform available	nation	No information		on available		-	
	Ads	orptior	n / d	lesorption								
Transpo	ort		-	coefficient 's constant	log Kow	Evap	ooration r	ate	Method		Note	
Soil-wa	ter	No availa	ble	information	No informatio n available	No info	ormation ble		No information available	_		
Water-a	air	No availa	ble	information	No informatio n available	aldelieve		ion No information available		-		
Soil-air		No availa	ble	information	No informatio n available	ormatio No into		ormation No information available		-		
12.5.	Resu	ults of	PBT	and vPvB asses	sment							
									either persistent, bi evels of 0.1% or high		umulative and	ŀ
	:											
12.6.	End	ocrine	disr	upting properti	es							
	accc	ording	to R		7(f) or Comm	ission De	elegated i		to have endocrine d tion (EU) 2017/2100	•	•	:S
12.7.	Oth	er adve	erse	effects								
	No 1	further	rele	evant information	on available.							
				considerations	S							
13.1	W	aste tr	eatr	ment methods								
13.1.1.				kaging disposal		., .						
		ıbmit f otectic		isposal to the le	egal person a	uthorize	d by the	Minist	ry of Environmental	and l	Nature	



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

Page 15 of 18

Trading name:		SODIUM TETRAB	ORATE, SOLUTION		
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

13.1.2.	Waste codes/waste design	ations according to Law:
	Packaging that contains re	sidual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevan	t information:
	No information available	
13.1.4.	Sewage disposal – relevant	t information:
	Waste must not be dispose	ed of into the sewage system.
13.1.5.	Other disposal recommend	dations:
	authorized by the ministry	duct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge.
13.1.6.	Relevant Community provi	sions:
	Disposal must be made ac	cording to official regulations.
SECTIO	N 14 TRANSPORT INFORMA	ATION
	Transporting/shipment by ro	ad (ADR)
UN num	iber:	1993
UN prop	per shipping name:	Flammable liquid, n.o.s. (ethanol, isopropanol)
Transpo	rt hazard class(es):	3
Packing	group:	II
Environr	mentally hazardous:	-
Special	orecautions for user:	-
	Transporting/shipment by ra	il (RID)
UN number:		1993
UN proper shipping name:		Flammable liquid, n.o.s. (ethanol, isopropanol)
Transport hazard class(es):		3
Packing group:		II
Environmentally hazardous:		-
Special	orecautions for user:	-
	Inland waterway transport (A	NDN)
UN num	ber:	1993
UN prop	per shipping name:	Flammable liquid, n.o.s. (ethanol, isopropanol)
Transpo	rt hazard class(es):	3
Packing	group:	



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

Page 16 of 18

Trading name:		SODIUM TETRABORATE, SOLUTION			
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

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:	II
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTIO	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: -		



Page 17 of 18

Trading name:		SODIUM TETRABORATE, SOLUTION			
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain
	Information according 1999 guideline)	dangerous substances, mixtures and articles (Annex XVII); 9/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessmen	t
	None	

SECTION	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:	Manufacturer's MSDS file.



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

Page 18 of 18

Trading name:		SODIUM TETRABORATE, SOLUTION			
Product code:	NTB-OT-X**	Revision date:	14 November 2022	Version:	7

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classifi	catior	1	Classification procedure
-			-
16.5.	Rele	evant H statements (numl	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.	16.6. Training advice:		-
			** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Furt	her information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario resulting to chemical safety assessment
-