

ALCIAN YELLOW TOLUIDINE BLUE KIT

The kit contains:

Periodic acid, 1% solution
HCL reagent, A.T.
Sodium metabisulphite, solution
Alcian Yellow, solution
Buffer solution, A.T.
Toluidine Blue reagent



SAFETY DATA SHEET

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

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

SECTI	ON 1 IDENTIFICATION	OF THE SUE	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	PERIODIC	PERIODIC ACID, 1 % SOLUTION		
	Chemical name:	-	-		
	Catalogue number:	PK1-OT-X	/ * *		
1.2.	Relevant identified use	es of the sub	ostance or mix	xture and uses advised against	
	Uses:		For use wi	ith special staining kits.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advis	es advised against: device, registered at the Agen		act is intended for use only as an <i>in vitro</i> diagnostic medical gistered 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	Details of the supplier of the safety data sheet			
	Supplier: B		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number: +		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent person: <u>n</u>		msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone number				
	National Protection and Rescue Dire		irectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2 HAZARDS INFORMATION					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)					
	Hazard class and category	/ code:	Hazard statements*:			
	Not identified as hazardous subst	ance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-sta	atements: see S	ection 16			
2.2.	Classification according to EC Dire	ective Nr. 1272	/2008 CLP)			
	Product identification:	PERIODIC AC	ID, 1 % SOLUTION			
	Identification number: -					
	Authorization no.: -					
	Hazard pictograms:	-				



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	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
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 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)		
-	_	-	_	-		

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



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	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.		
	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.		
4.3.	Indication of any 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 Sect	ion 8).			
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containme	nt and cleaning up			



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

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



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Recommendations:	-
Industrial sector specific solutions:	-

8.1. Cont			TROLS/PER	SONAL	PROT	ECTION			
Occu			upational exposure limit llues/short term values			Biological limit values			
						opm	mg/m³	1	J
-			-			-	-	No infor	mation available
Substance name:	-								
EC No:	-		CAS No:	_					
DNEL									
					Inc	lustrial			
Route of exposure:			Acute ect local	effe	Acutect sys		Chronic effect local		Chronic effect systemic
Oral		-		-			-		-
Inhalation		-	-			-		-	
Dermal		-	-			-		-	
Critical physic	al paran	neters: s	olubility, fla	mmabili	ty, cor	rosivity:	-		
					Co	nsumer			
Route of exposure:			Acute ect local	effe	Acutect sys		Chro effect		Chronic effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
PNEC									
Environmenta	l protec	tion tar	get			PNEC			
Fresh water						No information available			
Freshwater sediments					No information available				
Marine water						No information available			
Marine sediments						No infor	mation availal	ole	
Food chain						No information available			
Microorganisms in sewage treatment						No information available			
Soil (agricultu	ral)					No information available			



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Air			No information available		
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture relate measures to prevent 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 prescribe exposure:	revent	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equi	pment			
8.2.2.1.	Eye and face protection:	rotection: Safety glasses that stick to face (preventing splashir visor.			
8.2.2.2.	Skin protection				
U.Z.Z.Z.			tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a cor organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation available		
8.2.3.	Environmental exposure	controls			
	Substance/mixture related measures to prevent exposure:		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.		
	Technical measures to pr exposure:	event	See Section 6		

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



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

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

SECTION 11 TOXICOLOGICAL INFORMATION



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Acuto tovi	city:						
Route of exposure:	Method		Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	₅₀ /LC ₅₀ or Exposure t		Results	
Oral exposure:	No information available	_	LD ₅₀		_	_	
Dermal exposure:	No information available	-	LD ₅₀		-	-	
Inhalation exposure:	No information available	-	LC ₅₀		-	-	
Specific ta	rget organ toxicity – sir	nale exposure (STOT SFI:				
Specific tu		c effects		t organ		Note	
Oral exposure:	No information a		No informati		a -	11010	
Dermal exposure:		No information available		on available -			
Inhalation exposure: No information			No information available -				
а.а.т. слрован							
Respirator	y irritation:	No infor	mation available				
	<i>y</i>	110 111101					
Irritation a	nd corrosion						
<u> </u>	Exposure time	Species	Evaluation	Method		Note	
Skin irritation:	-	rabbit	-	_	-		
Eye irritation:		rabbit	-	_	-		
				<u> </u>	<u> </u>		
Sensitization	on						
Dermal exposure:	No information availa	able					
Inhalation exposure:	tion No information available						
<u> </u>	i .						
Symptoms	related to the physical	l, chemical and	toxicological char	acteristics			
Oral exposure:	Swallowing may ca sensation; higher I In case of vomiting	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:		concentration may cause suffocation. Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure may cause drying, cracking and tingling sensation of skin.					



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Inhalation expos	ure:		large amount eezing, heada	•		idequately vent	ilated perime	eter may cause
Eye exposure: Direct eye co sensation.		ontact may cause slight to moderate irritation, lacrimation and burning						
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chroni	c)			
-		Dose	Exposure time	Species		Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No informati available	on	No information available	No informatio available	n -
Subacute dermal	No availa	information able	No information available	No informati available	on	No information available	No informatic available	on -
Subacute inhalation	No availa	information able	No information available	No informati available	on	No information available	No informatio available	on -
Subchronic oral	No availa	information able	No information available	No informati available	on	No information available	No informatic available	n -
Subchronic dermal	No availa	information able	No information available	No informati available	on	No information available	No informatic available	n -
Subchronic inhalation	No availa	information able	No information available	No informati available	on	No information available	No informatic available	n -
Chronic oral	No availa	information able	No information available	No informati available	on	No information available	No informatic available	n -
Chronic dermal	No availa	information able	No information available	No informati available	on	No information available	No informatio available	n -
Chronic inhalation	No availa	information able	No information available	No informati available	on	No information available	No informatic available	n -
Specific target organ toxicity – repe			•	xposure (S	IOT R			Nata
			pecific effects tion available		No :	Target orga		Note
Subacute oral Subacute dermal			tion available			No information available - No information available -		_
Subacute inhalat			tion available			nformation avai		_



11.2.2. Other information:

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Subchr	onic oral	No information	n available	No inforn	nation available	-		
Subchr	onic dermal	No information	n available	No inform	nation available	-		
Subchr	onic inhalation	No information	n available	No inform	nation available	-		
Chronic	oral	No information	n available	No inform	nation available	-		
Chronic	dermal	No information	n available	No inform	nation available	-		
Chronic	inhalation	No information	n available	No inform	nation available	-		
	CMR effects (carcinogenicity, m	utagenicit	y, reproductive toxicit	ty)			
	Carcinogenicity:		Current s	studies on test animal	s did not indicate ca	arcinogenic effects.		
	Mutagenicity in-vitro:		Current	<i>in vitro</i> tests did no	t indicate mutagen	ic effects.		
	Genotoxicity:		No information available					
	Mutagenicity	in-vivo:	Current in vivo tests did not indicate mutagenic effects.					
	Germ cell mutagenicity:			No information available				
	Reproductive toxicity.			No toxicity on reproductive organs was determined in reproductive organs.				
	Summary of e	evaluation of the 0	CMR prope	erties: -				
	.i							
11.2	Information of	on other hazards:						
11.2.1.	Endocrine disrupting properties:							
	components endocrine according to Commission 2017/2100 o	e/mixture does no considered to disrupting p REACH Article Delegated regula r Commission Re D5 at levels of	o have roperties 57(f) or tion (EU) egulation					

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



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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	-

Biodeg	rada	tion
--------	------	------

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

12.5. Dioaccumulative potentia	12.3.	Bioaccumulative	potentia
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Partition coefficient: n-octanol/water (log Kow):

			_			
Value	Concentration	рН	°C	Method	Evaluation	Note



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Product code: PK1-C		DT-X**		Date	of co	mpilatio	on:	21 Dec	2022	,	Versior	า: 4		
-		No availa	inform	ation _		_	No info	ormation le	1	No inform available	nation	-		
	Bio	concen	tration	factor (BCF)									
,	Value			Species		N	Method	I		Evaluatio	on		N	lote
No infavailab		ion	No availat		nation	No info		on		information ailable	on		informa ilable	ation
	Chr	onic ed	cotoxicit	у										
	Va	ılue		Dose		oosure ime	Spe	ecies	١	Method	Eva	aluatio	on	Note
Chroni	Chronic toxicity on fish LC ₅₀			information i					ormation		o information railable		-	
Chroni crusta		-		EC ₅₀	No infor avail	mation able	No inforr availa	nation ible	•	ormation ailable	No int		tion	-
12.4.	Мо	bility ir	n soil											
	Knc	wn or	predicte	ed distribut	ion in e	environm	nental c	ompart	men	ts:				
	No	inform	ation av	ailable .										
	Sur	face te	nsion:					Т						
		Value		°C	С	oncentra	ition		M	ethod			No	te
	No No information available available			No information available		No information available		ation	-					
	Ads	orptio	n / deso	rption										
Transp	ort		/D coef enry's co		lo	og Kow	Ev	/aporatio	on ra	ate l	te Method			Note
Soil-w	ater	No availa		formation	No ii availa	nformation able		o inform ailable	atio	n No ir availa	nformat able	ion	-	



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Water-a	available available available available							
Soil-air	il-air No information available No information available No information available No information available -							
12.5.	Resu	lts of	PBT and vPvB asses	ssment				
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.							
12.6.	Endo	crine	disrupting 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.	Othe	er adve	erse effects					
	No ir	nforma	ation available					
SECTIO	N 13	DISPO	SAL CONSIDERA	TIONS				
13.1.	Wa	aste tre	eatment methods					
13.1.1.	Pro	oduct/	Packaging disposa	l:				
		bmit fo	•	egal person autho	rized by the Mini	istry of Environmen	tal and Nature	
13.1.2.	Wa	aste co	odes/waste designa	tions according to) Law:			
	No	infor	mation available					
	<u> </u>							
13.1.3.	Wa	aste tre	eatment – relevant	information:				
	No	infor	mation available					
13.1.4.			disposal – relevant					
	Wa	aste m	ust not be dispose	d of into the sewa	ge system.			
13.1.5.	Otl	her dis	sposal recommend	ations:				



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



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

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

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



SAFETY DATA SHEET

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

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

None	
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SECTIO	ON 16 Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses paroute (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)			
Classifi	ication	Classification procedure			
-		-			
16.5.	Relevant H statements (number	er and full text)			
	H: -	-			
16.6.	Training advice:	-			
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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Trading name:		HCL REAGENT,	A.T.		
Product code:	HCLAT-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

SECTI	ON 1: Identification of	the substance	e/mixture	e and of the company/undertaking	
1.1	Product identifier	Product identifier			
	Trading name:	HCL REAGE	NT, A.T.		
	Chemical name:	-			
	Catalogue number:	HCAT-OT-X	(**		
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with special staining kits in histopathology.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:	Address:		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997 +385 1 2404039		
	Telefax.:				
	e-mail of competent p	person:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

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 cat	egory code:	Hazard statements*:		
	Not identified as hazardous	substance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Haza	rd-statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	HCL REAGENT,	A.T.		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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Trading name:		HCL REAGENT,	HCL REAGENT, A.T.		
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	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Propert	ies:
	No known endocrine disrupting	properties
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not PBT or a vPvB.	

SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
7647-01-0/ 231-595-7/ 017-002-00-2	01-2119484862-27- xxxx	< 1%	hydrochloric acid, 37%	Skin Corr. 1B; H314 STOT SE 3; H335	

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



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Trading name:	HCL REAGENT, A.T.				
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	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.
4.3	Indication of any immediate	medical attention and special treatment needed
	-	

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 with full jet			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Formation of toxic gases is possible during heating or in case of fire.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.			

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



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Trading name:	HCL REAGENT, A.T.				
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6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal in	See Section 13 for disposal information.		

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



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

SECTION 8. Expos	ure contr	ols/perso	nal prote	ection			
8.1 Control pa	arameters						
Substance					cupational exposure limit alues/short term values		Biological limit values
				ŗ	opm	mg/m³	
Hydrogen chloride		764	7-01-0	5	5/10	8/15	-
Substance name: -							
EC No:	_	CAS No	:				
DNEL							
				Ind	ustrial		
Route of exposure:	Acu effect					Chronic effect local	Chronic effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
Critical physical par	rameters: s	olubility,	flammabi	lity, corr	osivity:	-	
				Cor	sumer		
Route of exposure:		cute ct local		ute systemic		Chronic effect local	Chronic effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
PNEC	PNEC						
Environmental protection target				PNEC			
Fresh water					no information available		
Freshwater sedime	nts				no information available		
Marine water					no information available		
Marine sediments					no information available		



Food chain

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

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Trading name:		HCL REAGENT,		<u> </u>	
Product code:	HCLAT-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

no information available

	Substance/mixture related measures to prevent exposure:	See Se	ction 6	
8.2.3.	Environmental exposure controls			
8.2.2.4.	Thermal hazards:	No info	ormation available	
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.		
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.		
		The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
8.2.2.2.	Skin protection			
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.	
8.2.2.	Personal protection equipment			
	Technical measures to prevent expo	sure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.	
	Organisational measures to prevent exposure:	•	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.	
8.2.1.	Appropriate engineering controls			
8.2	Exposure controls			
Air	,		no information available	
Soil (agric	_		no information available	
Microorga	Microorganisms in sewage treatment		no information available	



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

Information on basic physic	sical and chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	biting/no information available	No information available
Melting point / freezing p	ooint: No information available	No information available
Boiling point or initial boi point and boiling range:	ling No information available	No information available
Flammability:	No information available	No information available
Lower and upper explosion	on limit: No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperatur	e: No information available	No information available
Decomposition temperat	ure: 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 noctanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative de	ensity: 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		

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



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Trading name:		HCL REAGENT	, A.T.		
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10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No dangerous reactions known.
10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
10.5	Incompatible materials:	No further relevant information available.
10.6	Hazardous decomposition products:	No dangerous decompostion products known.

11.1 Informati	on on hazard cla		d in Regulation	n (EC) No 1272,	/2008		
Acute to							
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure tim	ne Results	
Oral:	-	-		ormation ailable	-	-	
Dermal:	-	-		ormation ailable	-	-	
Inhalation:		-		ormation ailable	-	-	
Specific t	arget organ toxi		oosure (STOT			Nists	
	-	ecific effects		Target org		Note	
Oral:	No information			information ava		_	
Dermal:	No information		No information available -				
Inhalation:	No information	on available	No information available -				
Aspiratio	n hazard:		No information	on available.			
: *		:					
Irritation	and corrosion						
	Expos	ure time	Species	Evaluation	Method	Note	
Skin corrosion/irritation	n: -		-	-	-	-	
Serious eye damage/irritation	-		-	_	-	-	
Sensitiza	tion						
Skin sensitization:		nformation ava	nilable				
Respiratory sensit		nformation ava					



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- 7 1	ms rela	ated to the ph	nysical, chemic	al and toxicolog	gical characterist	ics			
Oral exposure:		No informati	on available.						
Dermal exposure	e:	No informati	on available.						
Inhalation expos	ure:	No informati	ation available.						
Eye exposure:		No informati	on available.						
Repeate	ed dos	e toxicity (sub	acute, subchro	onic, chronic)					
		Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No avail	information able	No information available	No information available	No information available	No information available	-		
Subacute dermal	No avail	information able	No information available	No information available	No information available	No information available	-		
Subacute inhalation	No avail	information able	No information available	No information available	No information available	No information available			
Subchronic oral	No avail	information able	No information available	No information available	No information available	No information available	-		
Subchronic dermal	No avail	information able	No information available	No information available	No information available	No information available	-		
Subchronic inhalation	No avail	information able	No information available	No information available	No information available	No information available	-		
Chronic oral	No avail	information able	No information available	No information available	No information available	No information available	-		
Chronic dermal	No avail	information able	No information available	No information available	No information available	No information available	-		
Chronic inhalation	No avail	information able	No information available	No information available	No information available	No information available	-		



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Trading name:		HCL REAGENT,	, A. T.		
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Subacu	te oral	No information available		No information available	-			
Subacu	te dermal	No information available		No information available	-			
Subacu	te inhalation	No information available		No information available	-			
Subchro	onic oral	No information available		No information available	-			
Subchro	onic dermal	No information available		No information available	-			
Subchro	onic inhalation	No information available		No information available	-			
Chronic	oral	No information available		No information available	-			
Chronic	dermal	No information available		No information available	-			
Chronic	inhalation	No information available		No information available	-			
	CMR effects (ca	arcinogenicity; mutagenicity	y; reproductive	toxicity)				
	Carcinogenicity:		Based on available data, the classification criteria are not met.					
	Mutagenicity <i>in vitro</i> :		Based on availa	able data, the classification c	riteria are not met.			
	Genotoxicity:		Based on availa	able data, the classification c	riteria are not met.			
	Mutagenicity <i>ii</i>	n vivo:	Based on available data, the classification criteria are not met.					
	Germ cell muta	agenicity:	Based on available data, the classification criteria are not met.					
	Reproductive t	oxicity:	Based on available data, the classification criteria are not met.					
		<u> </u>						
	Summary of properties:	evaluation of the CN	AR Based on met.	available data, the classifica	ation criteria are not			
11.2.	Information or	other hazards:						
11.2.1.	Endocrine disru	upting properties:						
	No known end that affect hum	docrine disrupting propert	ies					
	that affect fluit	idii ilcaitii.						
11.2.2.	Other informat							

SECTION 12. Ecologic	SECTION 12. Ecological information								
12.1 Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC ₅₀	96 hours	No information available	No information available	8.140 mg/l (ethanol)	-			



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% Degradation No information available		No in available	days) formation	Meth No inform available		Evaluatio No informatio available		No infor	
Biodeg									
Soil	No ir	nformation a	vailable	available		available	••	-	
Air		No information available		No inform available No inform		No informatio available No informatio		-	
Fresh water	No ir	information available		No inform available		No information available		-	
Marine water	No ir	nformation a	vailable	No inform available	ation	No information available		_	
	De	gradation h	alf-lives	Meth	nod	Evaluatio	n		Note
		dation	···						
12.2 Persist	ence a	nd degradal	oility						
Other organism	IS	-	_	-		-	-		-
Algae/aquatic p	olants	IC ₅₀	72 hours	No info	ormation le	No information available	No inform availal		-
Crustacea:		EC ₅₀	48 hours	No info	ormation le	No information available	No inform availal		-
Fish	h LC ₅₀ 96 hour		96 hours	No info	ormation le	No information available	No inform availal		-
Chronic (long-toxicity	- DOSE		Exposur time	e Spe	ecies	Method	Eva	luation	Note
Other organism	ıs	-	-	-		-	-		-
Algae/aquatic plants IC ₅₀		4 days	No info	ormation le	No information available		00 mg/l hanol)	-	
Crustacea:	stacea: EC ₅₀ 48 hours		48 hours	No info availab	ormation le	No information available		00 mg/l hanol)	-



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12.3	Bioaccumu	ılative p	otential									
	Octanol-w	ater par	tition coeffi	cient (log Kow))						
Valu		ncentrat			°C		ethod		Evalua	ation		Note
-	_		_		_			-			-	
					·							
	Bioconcen	tration f	factor (BCF)									
V	alue		Species		٨	/lethoc	ł	E	valuatio	on		Note
No info availabl		No availab	inform ole	ation	No info		on	No info		on	-	
	Chronic ec	otoxicit	y							Ī		1
	Value Dose		Dose	-	Exposure Spe		ecies	Meth	nod	Evaluation		Note
Chronic	toxicity on	fish	LC ₅₀	No informavaila	mation able	No inforr availa	mation able	No inform availab		No inforn availa		-
	toxicity on ea (<i>Daphnia</i>))	EC ₅₀		No information available		mation able	No inform availab		No inforn availa		-
			i									ī
12.4	Mobility in	soil										
	Known or I	predicte	ed distributi	on in e	environm	ental c	compart	ments:				
	No informa	ation av	ailable									
	Surface ter	nsion:										
	Value		°C	C	oncentra	tion		Metho	od			Note
	No informatio available		ormation ailable		informa [.] ilable	tion	No info	ormatio ole	n	-		
		å								<u>i</u>		
	Adsorption	n / deso	rption									



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Transpo	rt A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wat	er No information available	No information available	No information available	No information available	-
Water-a	ir No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5	Results of PBT and vPvB asses	ssment			
	Based on available data, the p	product does not o	contain any PBT or v	PvB substances.	
12.6	Endocrine disrupting propert	ies			
	Based on available data, does	not contain endo	crine disruptors.		
12.7	Other adverse effects				
	No further relevant information	on available.			
SECTIO	N 13. Disposal consideration	s			
13.1	Waste treatment methods				
12.1.1	Duration of (Darker in a discourse of the control o	1.			
13.1.1.	Product/Packaging disposal Submit for disposal to the I Protection.		rized by the Ministr	y of Environmental	and Nature
13.1.2.	Waste codes/waste designa	ations according to	Law:		
	15 01 10*: Packaging that c substances	ontains residual h	azardous substance	s or is contaminated	d with hazardous
13.1.3.	Waste treatment – relevant	information:			
	No information available				
	:				
13.1.4.	Sewage disposal – relevant	information:			
13.1.4.	Sewage disposal – relevant Waste must not be dispose		ge system.		



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	authorized by the ministry i	uct's remains into the sewage system. Submit the remains to the collectors n charge. Do not dispose of the packaging into the sewage system. Submit cors authorized by the ministry in charge.			
13.1.6.	Relevant Community provisions:				
	Disposal must be made acco	ording to official regulations.			
SECTION	14 TRANSPORT INFORMA	TION			
-	Fransporting/shipment by roa	nd (ADR)			
UN numb	per:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transport	hazard class(es):	-			
Packing g	jroup:	-			
Environm	entally hazardous:	-			
Special p	recautions for user:	-			
-	Transporting/shipment by rail	(RID)			
UN numb	oer:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transport	t hazard class(es):	-			
Packing g	jroup:	-			
Environm	entally hazardous:	-			
Special p	recautions for user:	-			
	nland waterway transport (Al	DN)			
UN numb	per:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transport	hazard class(es):	-			
Packing g	jroup:	-			
Environm	entally hazardous:	-			
Special p	recautions for user:	-			
-	Transporting/shipment by sea	a (IMDG)			
UN numb	oer:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transport	t hazard class(es):	-			
Packing o	ıroup:	-			
Environm	entally hazardous:	-			
Special p	recautions for user:	-			



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

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



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

SECTIO	ON 16. Other information					
16.1	Indication of changes:	-				
16.2	Abbreviations and acronyn	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 ar source of data:	nd _				
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 (nu	mber and full text)				
	314	Causes severe skin burns and eye damage.				
	H: 335	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



SAFETY DATA SHEET

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

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

SECTI 1.1.	Product identifier					
	Trading name:	SODIUM M	IETABISULFI	ITE, SOLUTION		
	Chemical name:	-				
	Catalogue number:	NM-OT-X*	*			
1.2.	Relevant identified us	es of the subs	tance or mi	ixture and uses advised against		
	Uses:		For use w	rith special staining kits.		
	Uses advised against:			identified uses are advised.		
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnor diagnost: medical device, registered at the Agency for Medicinal Product Medical Devices and there is no reason to use it for other			
1.3.	Details of the supplier	r of the safety	data sheet			
	Supplier:	Bio	oGnost Ltd.			
	Address:	М	edjugorska	edjugorska 59, Zagreb		
	Telephone number:	+3	385 1 2409997			
	Fax no.:	+3	385 1 2404039			
	e-mail of competent	person: <u>m</u>	nsds@biognost.hr			
	National contact:	-				
1.4.	Emergency telephone	Emergency telephone number				
	National Protection a	nd Rescue Dir	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Medical information:			1303 1 2340 342		

SECTIO	ON 2. Hazards identification						
2.1.	Classification of the substance of	or mixture					
2.1.1.	Classification according to Regu	ulation (EC) No 1272/20	08 (CLP)				
	Hazard class and cat	Hazard class and category code: Hazard statements*:					
	Eye Irr. 2	H319					
2.1.2.	Additional information						
	-	-					
*For fu	ll text of Hazard- and EU Hazard-s	statements: see Section	16				
2.2.	Label elements						
	Product identification:	SODIUM METABISU	LFITE, SOLUTION				
	Identification number:	-					
***************************************	Authorization no.:	-					



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Trading name:	SODIUM METABISULFITE, SOLUTION				
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	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 Properties: No known endocrine disrupting properties		
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance 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)	
7681-57-4/ 231-673-0/ 016-063-00-2	-	< 10 %	sodium metabisulfite	Acute Tox. 4, H302 Eye Dam. 1; H318 EUH031	

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



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Trading name:	SODIUM METABISULFITE, SOLUTION				
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	Following ingestion:		Rinse mouth. Call a doctor if you feel unwell.
	Self-protection of the first aider:		Treat symptomatically.
4.2.	Most important symptoms and effects, both acute and delayed		
	Following inhalation:	No i	nformation available
	Following skin contact:	No i	nformation available
	Following eye contact:	Risk	of blindness, Risk of serious damage to eyes.
	Following ingestion:	No i	nformation available
4.3.	Indication of any immediate medical attention and special treatment needed		
	-		

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, foam, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Do not enter fire area without proper 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 proper protective equipment, including respiratory protection.			
6.2. Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			



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Trading name:	SODIUM METABISULFITE, SOLUTION					
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6.3.	Methods and material for containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Covering of drains. Take up mechanically.				
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soo 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	n about secure handling.				
	See Section 8 for information	See Section 8 for information about personal protective equipment.				
	See Section 13 for information	on about containment.				

SECTIO	ON 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generat	ion:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a ventilated place.				
	Packaging materials:	Manufa	acturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep a	way from food and drink. Keep the containers closed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	and do chemic	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).			



Microorganisms in sewage treatment

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

No information available



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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties



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

SECTIO	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

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



Inhalation exposure:

No information available

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Product code:	NM-OT-X**	Revision date: 21 Dec 2022	Version: 4			

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



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



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

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



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Trading nam	ne:			SOD	IUM META	BISUL	FITE, SOLU	TION		
Product cod	e:	NM-OT-X	k *	Rev	vision date:	21	Dec 2022		Version:	4
Crustacea:		EC ₅₀	48 hours	No ir availa	nformation able	No ir	nformation able	No ir availa	nformation able	-
Algae/aquation	3	IC ₅₀	72 hours	No ir availa	nformation able			No ir availa	nformation able	-
Other organis	sms	-	_	micro	oorganisms	No ir availa	nformation able	No ir availa	nformation able	-
12.2. Pers	istence	e and degrad	dability							
Abio	tic de	gradation								
	De	egradation h	alf-lives		Method		E۱	/aluatio	on	Note
Marine water	No information available		No info	No information available		No informa	tion av	ailable	-	
Fresh water	esh water No information available		available	No info	ormation avai	lable	No informa	tion av	ailable	-
Air	No information available		available	No information available		No information available		ailable	_	
Soil	oil No information available		available	No information available		No information available		ailable	-	
No information		lo info vailable		No infor available		No ir availa	nformation able		No information	on availab
		lative poten		(1	K - · · · ·					
Value		pefficient: n- centration	pH	°C	Method	k	Evaluat	ion	No	ote
-	No i availal	nformation ble	-	_	No informat available	ion	No informa available	tion	-	
i	oncen	tration facto					F 1 .:			
Value		•	information		Method	NI - :	Evaluation		No informat	
No information No available availab		No available	information	n No ir availa	nformation able	No ir availa	nformation able		No informat available	ion



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Product code:	NM-OT-X**	Revision date:	21 Dec 2022	Version:	4

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



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



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

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



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

	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council 18 December 2006 concerning the Registration, Evaluation, Authorisation ar Restriction of Chemicals (REACH), establishing a European Chemicals Agenciamending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EE and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;
		Directive 2004/42/CE of the European Parliament and of the Council of 21 April 200 on the limitation of emissions of volatile organic compounds due to the use of organ solvents in certain paints and varnishes and vehicle refinishing products and amendin Directive 1999/13/EC;
		Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safe of workers from the risks related to chemical agents at work;
		Regulation (EC) No 1272/2008 of the European Parliament and of the Council of December 2008 on classification, labelling and packaging of substances and mixture amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;
		REACH Restrictions on the manufacturing, placing on the market and use of certa dangerous substances, mixtures and articles (Annex XVII);
	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values ar on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
5.2.	Chemical safety assessme	ent
	None	

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



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

ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trade name:		ALCIAN YELLOW, SOLUTION					
Product code:	AY-OT-X**	Date of compilation:	14 Nov 2022	Version:	3		

1.1.	Product identifier					
	Trade name:	ALCIAN YELL	LOW, SOLI	UTION		
	Chemical name:	-				
	Catalogue number:	AY-OT-X**				
1.2.	Relevant identified uses of the substance or mixture and uses advised against					
	Uses:			For use w	ith Alcian Yellow Toluidine Blue kit.	
	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 supp	lier of the safet	ty data she	eet		
	Supplier:		BioGr	BioGnost Ltd.		
	Address:		Medj	Medjugorska 59, Zagreb		
	Telephone numbe	r:	+385	+385 1 2409997		
	Telefax:		+385	385 1 2404039		
	E-mail of compete	nt person:	<u>msds</u>	sds@biognost.hr		
	National contact:		-			
1.4.	Emergency telephone numbers					
	National Protection and Rescue Directorate		•	112		
	Medical information	n:			+385 1 2348 342	
	Other information:				_	

SECTIO	ION 2. Hazards identification						
2.1.	Classification of the substa	Classification of the substance or mixture					
2.1.1.	Classification according to	Regulation (EC)	No. 1272/2008 (CL	P)			
	Hazard class and ca	Hazard class and category code: Hazard statement*:					
	Flam. Liq. 2		H225				
2.1.2.	Additional information	Additional information					
	-						
*For fu	ull text of Hazard- and EU Haz	zard-statements:	see Section 16.				
2.2.	Label elements	Label elements					
	Product identification:	Product identification: ALCIAN YELLOW, SOLUTION					
	Identification number:	-					



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Trade name:		ALCIAN YELLOW, SOLU			
Product code:	AY-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	Authorisation number:	-
	Hazard pictograms:	GHS02
	Signal word:	Danger
	Warning statement:	H225 Highly flammable liquid and vapor.
	Precautionary statement:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Supplemental hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Proper	ties:
	No known endocrine disrupting	g properties
	Results of PBT and vPvB ass 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 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						

SECT	ION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove all contaminated clothes/footwear. Thoroughly wash with water for at least 15 minutes.			



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Trade name:		ALCIAN YELLOW, SOLUTION					
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	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.				
	Following swallowing:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.				
	Self-protection of the first aider	-				
4.2.	Most important symptoms and effects, both acute and delayed					
	Following inhalation:	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 swallowing:	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 med	ical attention and special treatment needed				
	No information available					

SECT	SECTION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media: Small fire - water spray, dry powder, alcohol-resistant foam, CO2 Large fire - water spray or alcohol-resistant foam					
	Unsuitable extinguishing media: Water with full jet					
5.2.	Special hazards arising from th	e substance or mixture				
	Hazardous byproducts of fire:	Incomplete combustion of the product.				
5.3.	Advice for firefighters					
	Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing).					
5.4.	Additional information					
	Cool endangered receptacles we not contaminate the environm	vith water spray. Collect contaminated fire fighting water separately. Do ent with extinguishing media.				

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).		



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Product code:	AY-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	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:			
	Self-contained open-circuit con heat dissipation (fireproof cloth	npressed air breathing apparatus, a set for protecting the body from ing).		
6.2.	Environmental precautions:			
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.			
6.3.	Methods and materials for cont	ainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials		
6.3.2.	Cleaning up:	Sawdust, sand, mineral adsorbents		
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). Do not use incompatible materials (see Section 10).		
6.4.	Reference to other sections			
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.			

SECTIO	SECTION 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.				
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.				
	Measures to protect the environment: 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. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any inc	compatibilities				



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Trade name:	ALCIAN YELLOW, SOLUTION				
Product code:	AY-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	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.		
	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 para	meters						
Substance	CAS No	CAS No			exposure limit term values	Biological limit values	
			pp	m	mg/m³		
Ethanol	64-17-	5	100	0/-	1900/-	No information available	
Substance:	-						
EC No:	-		CAS No:		-		
DNEL	DNEL						
			Industri	ial			
Route of exposure:	Acute	Acute Acu		e Chronic		Chronic	
Route of exposure.	effect local	effect sy	ystemic	effect local		effect systemic	
Oral	-	-		-		-	
Inhalation	1900 mg/m³ (ethanol)	-		-		380 mg/m³ (ethanol)	
Dermal	-	-		-		343 mg/kg (ethanol)	
Critical physical param	eters: solubility, fl	ammability	y, corrosi\	vity:	-		
	Consumer						
Route of exposure:	Acute	Acı	ıte	(Chronic	Chronic	
Route of exposure:	effect local	effect sy	ystemic	eff	fect local	effect systemic	
Oral	-	-		-		87 mg/kg bw/day (ethanol)	



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Trade na	ame:	e: ALCIAN YELLOW, SOLUTION							
Product	code:	AY-OT-X**		Date of o	compilation:	1.	4 Nov 2022	Version:	3
			_			i .		1	
Inhalatio	n	950 mg/m ³ (ethanol)	-	-		114 mg/m³ (ethanol)			
Dermal		-	-	- 206 mg/kg (ethanol)					
PNEC									
Environmental protection target			PNEC						
Fresh wat	ter			0.96 mg/l (ethanol)				
Freshwat	er sedimer	nts		3.6 mg/kg	(ethanol)				
Marine w	ater			0.79 mg/l (ethanol)				
Marine se	ediments			2.9 mg/kg	(ethanol)				
Food cha	in			380-720 m	g/kg (ethanol)				
Microorg	anisms in	sewage treatment		580 mg/l (6	ethanol)				
Soil (agri	cultural)			0.63 mg/kg	g (ethanol)				
Air				no information available					
8.2.	Exposure	controls							
8.2.1.	Appropri	ate engineering cor	itrols						
	measure	e/mixture related s to prevent exposul entified uses:	re	Do not eat, drink or smoke in the workspace. Use personal protective equipment.					
	Structura exposure	Il measures to preve ::	nt	No information available					
		tional measures to exposure:		Organization during work	of work in orde process.	r to re	duce other wo	rker's influe	nce
	Technica exposure	I measures to preve ::	nt	See Section	7.2				
8.2.2.	Personal	protection equipme	ent						
8.2.2.1.	Eye and 1	face protection:	of co	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 prot	ection	<u> </u>						
				ective gloves standard EN	must be accordi 374.	ng to	the EU Directiv	e 2016/425/	/EEC
	Hand pro	otection:		Glove material: nitrile rubber					
				Glove thickness: ≥0.50 mm					
				Break through time: >480 min					



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	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No information avai	lable	
8.2.3.	Environmental exposure cont	trols		
	Substance/mixture related me exposure:	easures to prevent	See Section 6	
	Structural measures to preven	nt exposure:	Use modern equipment.	
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.	
	Technical measures to prever	nt exposure:	See Section 6	

9.1.	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	no information available			
	Colour:	dark amber	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			
	Lower and upper explosion limit:	no information available	no information available			
	Flash point:	23 °C	no information available			
	Auto-ignition temperature:	no information available	no information available			
	Decomposition temperature:	no information available	no information available			
	pH:	no information available	no information available			
	Kinematic viscosity:	no information available	no information available			
	Solubility:	no information available	no information available			
	Partition coefficient n-octanol/water (log value):	no information available	no information available			



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	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:	The product is stable under normal working and storage conditions.				
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.				
10.3.	Possibility of hazardous reactions:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.				
10.4.	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.				
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.				
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.				

11.1. Infor	mation on hazard	classes as define	ed in Regulation (EC) No 1272/2008			
Acut	e toxicity:						
Route of exposure:	Method	Species	Effective Dose LD_{50}/LC_{50} or $ATE_{mixture}$	Exposure time		Results	
Oral:	-	rat	LD ₅₀	-	7.060	mg/kg (ethanol)	
Dermal:	-	rabbit	LD ₅₀	-		>20.000 mg/kg (ethano	
Inhalation:	-	rat	LC ₅₀	4 h (ethanol)	>8.000 mg/l (ethano		
			i .	1		-	
Specific tar	get organ toxicity -				:	-	
Specific tar	get organ toxicity -	single exposur		Target organ	1	Note	
Specific targ			ts	Target orgar		Note -	
	No informat	Specific effect	ts No		ilable		
Oral:	No informat	Specific effect	No No	information ava	ilable ilable	-	
Oral: Dermal:	No informat	Specific effect tion available tion available	No No	o information ava	ilable ilable	-	



No

information

available

Subchronic

oral

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No

information

available

No

information

available

No information

available

No information

available

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Product code:	AY-OT-X**	Date of compilation:	14 Nov 2022	Version:	3	

Product code: AY-OT-X*		AY-OT-X**	Date of compilation: 14 Nov 2022 Version:					ersion:
Irritation an	ıd co	rrosion						
3		Exposure	time Sp	ecies	Eva	luation	Metho	d Not
Skin ir		No informatio available	n No available	information	No inform	nation	No informatio available	n -
Serious eye damage/irritatio	n	No informatio available	n No available	information	No inforn available	nation	No informatio available	n -
Sensitization								
Skin sensitization	n.	No inform	ation available					
Respiratory sensitization:	'I I.		ation available					
Sensitization.								
Symptoms re	lated	I to the physic	cal, chemical and	d toxicologica	l character	istics		
Oral exposure: sensation In case of			igher levels of co	oncentration on causes co	may cause	nausea, al	in the mouth, buodominal pain an	nd vomiting
Dermal exposur	e:	_	ght irritation. After short exposure, resorption effects are not likely. Long-term exposure ay cause drying, cracking and tingling sensation of skin.					
Inhalation exposure:			on of large amounts of vapors in inadequately ventilated perimeter may cause g, sneezing, headache and nausea.					
Eye exposure:		Direct eye co	ontact may caus	e slight to m	oderate irri	tation, lacı	rimation and bur	ning
Repeated dos	se to		te, subchronic, c					
			Exposure time	Species		nod	Evaluation	Note
Subacute oral	No information available		No information available	No informa available	into	rmation able	No information available	-
Subacute dermal		ormation	No information available	No informa available	into	rmation able	No information available	-
Subacute inhalation		ormation	No information available	No informa available	intoi	rmation able	No information available	-
	T							



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Subchronic dermal	No information available	No information available	No informatio available	No information available	No informatio available	n -
Subchronic inhalation	No information available	No information available	No informatio	No information available	No informatio available	n -
Chronic oral	No information available	No information available	No informatio available	No information available	No informatio available	n -
Chronic dermal	No information available	No information available	No informatio available	No information available	No informatio available	n -
Chronic inhalation	No information available	No information available	No informatio available	No information available	No informatio available	n -
1						
Specific targ	et organ toxicity	- repeated exposu	re (STOT-RE):			i .
		Specific effects		Target organ		Note
Subacute oral		No information available		No information available		-
Subacute derm	al	No information available		No information available		-
Subacute inhalation		No information available		No information available		-
Subchronic oral		No information available				
Subchronic ora	l	No information a	vailable	No information		-
		No information as		No information		-
Subchronic ora Subchronic der Subchronic inh	mal		vailable		available	
Subchronic der	mal	No information a	vailable vailable	No information	available available	-
Subchronic der Subchronic inh	mal alation	No information as	vailable vailable vailable	No information	available available available	-
Subchronic der Subchronic inh Chronic oral	mal alation	No information as No information as No information as	vailable vailable vailable vailable	No information No information No information	available available available available	-
Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat	mal alation I ion	No information at No informati	vailable vailable vailable vailable vailable	No information No information No information No information No information	available available available available	-
Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat	mal alation I ion (carcinogenicity	No information at No information at No information at	vailable vailable vailable vailable vailable vailable	No information No information No information No information No information	available available available available available	-
Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat CMR effects Carcinogenic	mal alation l ion (carcinogenicity	No information at No informati	vailable vailable vailable vailable vailable vailable roductive toxici	No information No information No information No information No information ty)	available available available available available	-
Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat	mal alation (carcinogenicity city: y in-vitro:	No information at No informati	vailable vailable vailable vailable vailable vailable roductive toxici No info	No information No information No information No information No information	available available available available available available	-
Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat CMR effects Carcinogenic Mutagenicit	mal alation I ion (carcinogenicity city: y in-vitro:	No information at No informati	vailable vailable vailable vailable vailable vailable roductive toxici No info	No information No information No information No information No information ty) prmation available prmation available	available available available available available e e	-
Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat CMR effects Carcinogenic Mutagenicity Genotoxicity	mal alation (carcinogenicity city: y in-vitro: y in-vivo:	No information at No informati	vailable vailable vailable vailable vailable roductive toxici No info	No information No information No information No information No information ty) primation available primation available primation available	available available available available available e e	-



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Trade name:	ALCIAN YELLOW, SOLUTION					
Product code:	AY-OT-X**	Date of compilation:	14 Nov 2022	Version:	3	

11.2.	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	No known endocrine disrupting properties that affect human health.
11.2.2.	Other information:
	-

12.1. Toxici	ty					
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Fish	No information available	8.140 mg/l (ethanol)	-
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants:	IC ₅₀	72 hours	algae	No information available	5.000 mg/l (ethanol)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	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	-		



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Trade name	e:				ALCIAN YELI	.ow, sc	LUTIO	N		
Product cod	de:	AY-OT-X	*		Date of compilation: 14		4 Nov 2022	Version	າ:	
Fresh water	No i	intormation available			information ilable	No int	formation	n -		
Air	No i	nformation a	tormation available		information ilable	No int	formatio ble	n -		
Soil	No i	nformation a	vailable		information ilable	No int	formatio ble	n -		
Biodegrac	lation									
% Degradat	ion	Time (c	lays)		Method		Evaluat	ion	Note	
-	-			-		-		_		
						·				
12.3.	Bioaco	cumulative p	otential							
	Octan	ol-water par	tition coeffi	cient (lo	og Kow)					
Value	C	oncentration	рН	ı °C	M	Method		Evaluat ion	Note	
-	-		-	-			-	-		
Biocon	ncentra	ation Factor ((BCF)							
Value		Spec			Method		Ev	aluation	No	te
No information available	١	lo informatio		No	No intormation available		No information available		-	
Chronic ed	cotoxi	citv					:		i	
Value		Dose	Exposur	e time	Species	Me	thod	Evaluatio	n N	lote
Chronic toxio	city	LC ₅₀	No informat	tion	No information available	No inform availa	nation	No informatio available		
Chronic toxicity on crustacea (Daphnia)		EC ₅₀	No informat available		No information available	No inform availa		No informatio available	n -	



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Trade name:		ALCIAN YELLOW, SOLUT	ION		
Product code:	AY-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	No information ava	ailable							
	Surface tension:								
	Value		°C	Со	ncentration	Me	thod		Note
	No information available	No information available		No information		No inforr availa	nation ble	-	
Adsor	ption / desorption		:		:				
Transpoi	rt A/D coeffi Henry's cor		log Kov	V	Evaporatio	n rate	N	Method	Note
Soil-Wat	er No inf available	ormation	No informa available	ation	No informat available	ion	No int	formation ble	-
Water-A	ir No inf available	ormation	No informa available	ation	No informat available	tion	No inf availa	formation ble	-
Soil-Air	No inf available	ormation	No informa available	ation	No informat available	tion	No inf availa	formation ble	-
12.5.	Results of PBT and	vPvB asses	ssment						
	Based on available	data, the p	oroduct does	not o	contain any Pl	BT or vF	vB subs	stances.	
12.6.	Endocrine disruptir	ng propert	ies						
	Based on available	data, does	not contain	endo	ocrine disrupto	ors.			
12.7.	Other adverse effe	cts							
	No adverse effects		ted.						
1	N 13. Disposal cons		S						
13.1.	Waste treatment m	nethods							
13.1.1.	Product/Packagin	g disposal							
	Submit for dispos Protection.	al to the le	egal person a	uthor	rized by the M	linistry	of Enviro	onmental an	d Nature
13.1.2.	Waste codes/wast	te designa	tions accordi	ng to	Low:				
	Packaging that co					contar	minated	with hazard	ous substances



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13.1.3.	Waste treatment – relevar	nt information:			
	No information available				
13.1.4.	Sewage disposal – relevar	nt information:			
	Waste must not be dispos	sed of into the sewage system.			
13.1.5.	Other disposal recommer	ndations:			
Do not dispose of the product's remains into the sewage system. Submit the remains to the consultation 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 prov	visions:			
	Disposal must be made a	ccording to official regulations.			
SECTIO	N 14. Transport informatio	on			
Tra	nsporting/shipment by road	(ADR)			
UN num	nber	1170			
UN prop	per shipping name:	Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing	group:	III			
Environi	mental hazards:	No information available			
Special	precautions for user:	-			
Tra	nsporting/shipment by rail (I	RID)			
UN num	nber:	1170			
UN prop	per shipping name:	Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing	group:	III			
Environi	mental hazards:	No information available			
Special	precautions for user:	-			
Tra	nsporting/shipment by inlan	d waterways (ADN)			
UN number:		1170			
UN prop	per shipping name:	Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing	group:	III			
Environi	mental hazards:	No information available			
Special	precautions for user:	-			



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Transporting/shipment by sea (IMDG	Transporting/shipment by sea (IMDG)			
UN number:	1170			
UN proper shipping name:	Ethanol solution			
Transport hazard class(es):	3			
Packing group:	III			
Environmental hazards:	No information available			
Special precautions for user:	-			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-			
Transporting/shipment by air (ICAO-TI/IATA-DGR)				
UN number:	1170			
UN proper shipping name:	Ethanol solution			
Transport hazard class(es):	3			
Packing group:	III			
Environmental hazards:	No information available			
Special precautions for user:	-			
Further - information:				

SECTIO	DN 15. Regulatory information				
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorisation and/or restrictions on use				
	Authorisations: -				
	Restrictions: -				



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Informat guidelin	dangerous substances, mixtures and articles (Annex XVII); n according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC
guidelin	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing
National	egislation: biological limit values, Regulation on categories, types and classification of

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



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16.3.	Key literature reference data:	es and source of	
16.4.	Classification and proceed 1272/2008 (CLP)	edure used to derive the classification for mixture according to Regulation (EC)	
Classifi	cation	Classification procedure	
-		-	
16.5.	Relevant H statements (number and full text)		
	H: 225	Highly flammable liquid and vapor.	
16.6.	Training advice:	-	
		** "X" in the product code marks different volumes (different packaging of the product)	
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX: Exposure scenario resulting t	o Chemical safety assessment
-	



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SECTI	ON 1: Identification of	the substance	e/mixture	e and of the company/undertaking	
1.1	Product identifier				
	Trading name:	BUFFER SOI	LUTION, A	A.T.	
	Chemical name:	-			
	Catalogue number:	PO-OT-X**			
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with Alcian Yellow Toluidine Blue kit.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against: de		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:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997 +385 1 2404039 <u>msds@biognost.hr</u>		
	Telefax.:				
	e-mail of competent p	erson:			
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information: Other information:			+385 1 2348 342	
				-	

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substar	nce or mixture			
2.1.1	Classification according to	Classification according to Regulation (EC) No 1272/2008 (CLP)			
	Hazard class and ca	tegory code:	Hazard statements*:		
	Repr. 1B		H36FD		
2.1.2.	Additional information				
	-				
*For fu	ıll text of Hazard- and EU Haz	ard-statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	BUFFER SOLUT	ON, A.T.		
	Identification number:	-			
	Authorization number:	-			



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	Hazard pictograms:	GHS08			
	Signal word:	Danger			
	Hazard statements:	H360FD May damage fertility. May damage the unborn child.			
	Precautionary statements:	P201 Obtain special instructions before use. P308+P313 IF exposed or concerned: Get medical advice/attention.			
	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. Con	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
1330-43-4/ 215-540-4/ 005-011-00-4	-	1 - 2%	sodium tetraborate	Eye Irrit. 2; H319 Repr. 1B; H360 FD		

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



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	Following ingestion:		DO NOT induce vomiting. Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label.
	Self-protection of the first	aider:	-
4.2	Most important symptoms	and eff	ects, both acute and delayed
	Following inhalation:	May cause eye irritation and upper respiratory system (stinging sensation, irritation). Bronchoconstriction is possible. Possible symptoms include CNS symptoms such as headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration.	
	Following skin contact:	Defatting, dry skin.	
	Following eye contact:	•	er may cause discomfort, stinging sensation, conjunctival redness, al surface lesions.
	Following ingestion:	It may lead to occurrence of strong sensation of stinging, headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration. If denaturants are present, dyspepsia may occur (such as vomiting).	
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:	No information available			
5.2	Special hazards arising from the su	ubstance or mixture			
	Hazardous combustion products:	No information available.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit	compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Do not contaminate the environment 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 and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.			



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Trading name:		BUFFER SOLUTIO	ON, A.T.			
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	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in (see Section 8).	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2.	Environmental precautions:					
		not dispose of in sewage, drainage system and waterways. In case of large spillage contact National otection 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:	Sawdust, sand, mineral adsorbents.				
6.3.3.	Other information:	Do not use incompatible materials (see Section 10).				
6.4.	Reference to other sections					
	-					

SECTIO	SECTION 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	oroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incom	npatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage roomsat temperatures ranging from 15 to 25 °C.				
	Packaging materials:	Manufacturer's original packaging. Keep away from food and drink. Keep the containers tightly closed.				
	Requirements for storage rooms and vessels:					
	Advices for storage equipment:		e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper .			



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Product code:	PO-OT-	-X**	Date		compilation: 21 Dec		2022	Version:	3	
Further in	formation	on storaç	ge conditio	ns:	and d chem	lo not u	se empty o o not store	ontainers	l in the storage re for storing othe mpatible materia	r
7.3 Specific e	nd use(s)									
Recomme	endations:				-					
Industrial	sector spe	cific solu	tions:		-					
SECTION 8. Expos	ure contr	ols/perso	onal protec	ction						
8.1 Control pa	arameters	ı								
					upational					
Substance	9	CA	AS No		values/short term v		/m³	Biological limit valu		ı
Disodium tetrabora	2to			1	ppm		/111			
anhydrous; Boric a		1330-43-4			-	- 5		-		
		•		1			•			
Substance name:	-									
EC No:	-	CAS No	S No: -							
DNEL										
				Ind	lustrial					
Route of		Acute Acute							Chronic	
exposure:	effect	local effect syste		/stemic	c effect local		local		effect systemic	
Oral	-		-		-			-		
Inhalation	-		-		-	-		-		
Dermal	-									
Critical physical pa	rameters: :	solubility,	flammabili							
_					nsumer					
Route of exposure:		cute ct local	Acute		amic		Chronic effect local		Chronic effect systemic	
Oral	-	et local	l effect systen		- enec		local	_	chect systemic	
Inhalation	_				-			_		
Dermal										
PNEC										
Environmental pro	tection tar	get			PNEC					
Fresh water				No information available						
Freshwater sediments					No information available					
Marine water					No information available					



exposure:

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Marine sediments			No information available			
Food chai	in		No information available			
Microorga	anisms in sewage treatment		No information available			
Soil (agric	cultural)		No information available			
Air			No information available			
8.2	Exposure controls					
8.2.1.	Appropriate engineering control	S				
	Substance/mixture related meas prevent exposure during identifi	ures to	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 prevexposure:	ent	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:	levels	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection					
	Hand protection:	Protec	tive nitrile gloves, 0.11 mm thick (EN 374).			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) ong sleeves (EN 340) and shoes that cover the entire foot.			
8.2.2.3.	Respiratory protection:		adequate ventilation to the premises where the product is and/or handled.			
8.2.2.4.	Thermal hazards:	No info	ormation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Se	ection 6			
	Structural measures to prevent exposure:	Use m	odern equipment.			
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.			
	Technical measures to prevent exposure:	See Se	ection 6			



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Information on basic physical and chemical properties					
	Value	Method			
Physical state:	liquid	No information available			
Colour:	colourless	No information available			
Odour/odour threshold:	no odor/no information available	No information available			
Melting point / freezing point:	No information available	No information available			
Boiling point or initial boiling point and boiling range:	No information available	No information available			
Flammability:	No information available	No information available			
Lower and upper explosion limit:	No information available	No information available			
Flash point:	No information available	No information available			
Auto-ignition temperature:	No information available	No information available			
Decomposition temperature:	No information available	No information available			
рН:	8.2 - 8.6	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:	No information available				
10.2	Chemical stability:	No information available				
10.3	Possibility of hazardous reactions:	No information available				
10.4	Conditions to avoid:	No information available				
10.5	Incompatible materials:	Strong oxidizing agents, strong reducing agents				
10.6	Hazardous decomposition products:	No information available				



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11.1 Info		n hazard o	lasses as defir	ned in Regu	ulation (I	EC) No 1272/2	2008		
	te toxicity:			<u> </u>	<u> </u>				
Route of exposure:		Method	Spec	ies		LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure	time	Results
Oral:		-	rat (sodium tetraborate)			LD ₅₀	No informa available		2.500 mg/kg
Dermal:		-	rabbit (sodiu tetraborate)		No inf availal	formation ble	No informa available	ition	>2.000 mg/kg
Inhalation:		-	rat (sodium tetraborate)			LC ₅₀	4h		>2.12 mg/l
Spe	cific target	t organ to	xicity – single (exposure (S	STOT SE):			
		S	pecific effects			Target orga	an		Note
Oral:	N	o informa	tion available		No information available -				
Dermal:	N	o informa	tion available		No information available -			-	
Inhalation:	N	o informa	tion available		No inf	ormation avai	lable	-	
Aspi	iration haz	zard:		No infor	rmation	available.			
	iration haz			No infor	rmation	available.			
: ·		corrosion	osure time	No infor		available. Evaluation	Method		Note
	ation and	corrosion	osure time				Method -	nos	Note skin irritation
Irrita	ation and	corrosion	osure time	Spec		Evaluation			
Skin corrosion/irri Serious eye damage/irrita	ation and	corrosion Expo	osure time	Spec		Evaluation -	-		skin irritation
Skin corrosion/irri Serious eye damage/irrita	ation and data	corrosion Expo	osure time	Spec		Evaluation -	-		skin irritation
Skin corrosion/irri Serious eye damage/irrita Sens	ation and ditation: ation sitization	corrosion Expo	osure time	Spec		Evaluation -	-		skin irritation
Skin corrosion/irri Serious eye damage/irrita Sens	ation and ditation: ation sitization	corrosion Expo	osure time	Spec		Evaluation -	-		skin irritation
Skin corrosion/irri Serious eye damage/irrita Sens Skin sensitiza Respiratory s	ation and distance ation ation ation ation:	corrosion Expo	e physical, che	Spec rabbit rabbit	cies	Evaluation -	-		skin irritation
Skin corrosion/irri Serious eye damage/irrita Sens Skin sensitiza Respiratory s	ation and datation: ation sitization ation: ensitizatio	Expo		Spec rabbit rabbit	cies	Evaluation -	-		skin irritation
Skin corrosion/irri Serious eye damage/irrita Sens Skin sensitiza Respiratory s Sym Oral exposure	ation and distance ation ation: ensitization eptoms rele:	corrosion Expo	e physical, che	Spec rabbit rabbit	cies	Evaluation -	-		skin irritation
Skin corrosion/irri Serious eye damage/irrita Sens Skin sensitiza Respiratory s	ation and distance ation ation: ensitization eptoms rel e: sure:	corrosion Expo	e physical, che nation availab	Spec rabbit rabbit	cies	Evaluation -	-		skin irritation



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Trading name:	BUFFER SOLUTION, A.T.				
Product code:	PO-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	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 -	ropostod	OVDOCLIFO	(CTOT DE)
Specific fairer	Oluan toxicity -	- rebeated	exposure	ISIOI NEI.

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



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Trading name:	BUFFER SOLUTION, A.T.					
Product code:	PO-OT-X**	Date of compilation:	21 Dec 2022	Version:	3	

arcinogenici utagenicity enotoxicity: utagenicity erm cell mute eproductive	in vitro: in vivo: tagenicity:	eproductive toxicity) No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No information available No information available No information available No information available May damage the unborn child. May damage fertility.
arcinogenici utagenicity enotoxicity: utagenicity erm cell mute eproductive	ty: in vitro: in vivo: tagenicity: toxicity:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No information available No information available No information available No information available May damage the unborn child. May damage fertility.
enotoxicity: utagenicity erm cell mure eproductive	in vivo: tagenicity: toxicity:	No information available No information available No information available May damage the unborn child. May damage fertility.
utagenicity erm cell mute eproductive	tagenicity: toxicity:	No information available No information available May damage the unborn child. May damage fertility.
eproductive	tagenicity: toxicity:	No information available May damage the unborn child. May damage fertility.
eproductive Immary of	toxicity:	May damage the unborn child. May damage fertility.
ımmary of		
•	evaluation of the CMR	No information available
formation o	n other hazards:	
	rupting properties:	
ne substand imponents srupting pr ticle 57(f) gulation (E	ce/mixture does not contain considered to have endocrine operties according to REACH or Commission Delegated J) 2017/2100 or Commission	
ther informa	ation:	
rti g gl	nponents oupting proceeds of the second process of the second proc	nponents considered to have endocrine upting properties according to REACH cle 57(f) or Commission Delegated ulation (EU) 2017/2100 or Commission pulation (EU) 2018/605 at levels of 0.1% or

SECTION 12. Ecological information							
12.1 Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-	
Crustacea:	EC ₅₀	48 hours	Daphnia magna (Water flea)	No information available	No information available	1.085-1.402 mg/l (sodium tetraborate)	



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Trading name	•			BUFFER S	OLUTIO	N, A.T	•			
Product code:	P	PO-OT-X**		Date of compila	ation:	21 De	ec 2022	Ve	ersion:	3
Algae/aquatic p	olants	IC ₅₀	4 days	Desmodesmus subspicatus (green algae)	No inform availab		No informat available		158 mg, (sodium tetrabor	
Other organism	ıs	-	-	-		_	-		-	
Chronic (long-toxicity	erm)	Dose	Exposur time	e Species	Met	thod	Evalua	tion	Not	:e
Fish		LC ₅₀	96 hours	No information available	No inform availab		No informat available			
Crustacea:		EC ₅₀	48 hours	No information available	No inform availab		No informat available		–	
Algae/aquatic p	olants	IC ₅₀	72 hours	No information available	No inform availab		No information available		-	
Other organism	ıs	-	-	-	-		-		-	
	degra	and degradab	•							
	De	egradation ha	alf-lives	Method		valuatio			Note	
Marine water	ine water - I No intormation available - 📒		No information available	No information available		-				
Fresh water No info		nformation a	vailable	No information available		No information available		-		
Air No information available		vailable	No information available		No information available		-			
Soil No information available		No information available		No information available		-				
Biodec	gradati	on								
% Degradation		Time (c	lays)	Method	E	valuatio	n		Note	
No information available			formation	No information available	No information No		lo infor vailable	information		

12	3 B	Bioaccumulative potential						
	С	octanol-water partition	coefficien	t (log Kow)				
	Value	Concentration	рН	°C	Method	Evaluation	Note	



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Trading na	me:				BUFF	ER SOI	LUTION	l, A.T.				
Product co	de: P	O-OT-X**		Date o	of cor	mpilatio	on: Z	21 Dec	2022	١	/ersion:	3
	1	1		1						1		
-	-		-				-			-		
Ď.												
	concentra	tion factor (E	-	N.4	ethod		F.	+:	_		Nata	
Value No informat	ion N	Specie	ormation	No infor				/aluatioi ormatioi			Note	
available		/ailable	Offilation	available		11	availab		1	-		
:												
Chı	ronic ecoto	oxicity	8									
V	alue	Dos	Δ	oosure ime	Spe	ecies	Meth	nod	Evalua	ition	Note	.
			No		No		No		No			
Chronic toxi	city on fish	n LC ₅₀				nation	inform	i	informa	tion	-	
			avail		availa	ble	availab		availabl	е		
Chronic toxi	city on	EC ₅₀	No infor		No inform	nation	No informa		No informa	tion	_	
crustacea (<i>E</i>	aphnia)	LC30	avail	1	availa		availab		availabl			
				·								
12.4 Mc	bility in sc	oil										
Kno	own or pre	edicted distri	bution in e	environme	ntal c	ompart	ments:					
		on available										
Sur	face tension											
	Value	°C	С	oncentrati	on		Metho	od			Note	
No info	ormation	No informatio	n	informati	on		ormatio	n	_			
ava	ilable	available	ava	ailable		availak	ole					
<u> </u>												
Ad	•	desorption										
Transport		coefficient y's constant	lo	og Kow	Ev	aporati	on rate	M	lethod		Note	
	No	informati	on No i	nformation	n No	o inform	nation	No inf	ormatio	n		
Soil-water	available		availa			ailable		availal		-	-	
Water-air	No	informati		nformation		inform	nation		ormatio	n .	_	
	available	9	avail	able	av	ailable		availal	ole			



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Trading	name:		В	JFFER SOLUTIO	ON, A.T.	Tage 15 of 10	
Product	t code:	PO-OT-X** Date of compilation		compilation:	21 Dec 2022	Version:	3
Soil-air	No availa	information able	No information available	No information available	No information available	-	
12.5	Results of	PBT and vPvB asse	ssment				
12.3	The substa	ance/mixture does	not contain compo 57(f) or Commission	n Delegated regu	d to have endocrine lation (EU) 2017/210		
12.6.	Endocrine	disrupting propert	ies				
	according		67(f) or Commission	n Delegated regu	d to have endocrine lation (EU) 2017/210		
12.7	Other adv	erse effects					
	No inform	ation available					
SECTIO	N 13. Disp	osal consideration	ıs				
13.1	Waste tr	reatment methods					
13.1.1.	Droduct	/Packaging disposa	.l.				
13.1.1.		for disposal to the		rized by the Mini	stry of Environment	al and Nature	
13.1.2.	Waste o	odes/waste designa	ations according to	n Law [.]			
10.1.2.		5			ontaminated with ha	zardous substar	nces
	<u> </u>						
13.1.3.	Waste tr	reatment – relevant	information:				
	No infor	rmation available					
	i						
13.1.4.		disposal – relevant					
	Waste m	nust not be dispose	ed of into the sewa	ge system.			
13.1.5.	Other di	isposal recommend	lations:				
10.1.5.	Do not o	•		the sewage syste	m. Submit the rema	ins to the collec	tors
		ed by the ministry caging to the collec	_			vage system. Su	bmit



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Product code:	PO-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

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



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BUFFER SOLUTION, A.T.				
PO-OT-X**	Date of compilation:	21 Dec 2022	Version:	3
F	PO-OT-X**			·

Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

18 December 2006 concerning to Restriction of Chemicals (REACH amending Directive 1999/45/EC arand Commission Regulation (EC) No and Commission Directives 91/155, Directive 2004/42/CE of the Europe on the limitation of emissions of volsolvents in certain paints and varnis Directive 1999/13/EC; Council Directive 98/24/EC of 7 Aprof workers from the risks related to Regulation (EC) No 1272/2008 of the December 2008 on classification, late amending and repealing Directive Regulation (EC) No 1907/2006; REACH Restrictions on the manufate dangerous substances, mixtures and Information according 1999/13/EC about limitation of emission guideline) Chemicals Act, Regulation on classification on biological limit values, Regulation on biological limit values	fic for the substance or mixture
Authorizations: Restrictions: Regulation (EC) No 1907/2006 of 18 December 2006 concerning to Restriction of Chemicals (REACH amending Directive 1999/45/EC and Commission Regulation (EC) No and Commission Directives 91/155, Directive 2004/42/CE of the Europe on the limitation of emissions of vol solvents in certain paints and varnis Directive 1999/13/EC; Council Directive 98/24/EC of 7 Ap of workers from the risks related to Regulation (EC) No 1272/2008 of the December 2008 on classification, la amending and repealing Directive Regulation (EC) No 1907/2006; REACH Restrictions on the manufad dangerous substances, mixtures and Information according 1999/13/EC about limitation of emission guideline) Chemicals Act, Regulation on cladangerous substances, Ordinant on biological limit values, Regulation biological limit values, Re	
Restrictions: Regulation (EC) No 1907/2006 of 18 December 2006 concerning to Restriction of Chemicals (REACH amending Directive 1999/45/EC at and Commission Regulation (EC) No and Commission Directives 91/155, Directive 2004/42/CE of the Europe on the limitation of emissions of vol solvents in certain paints and varnis Directive 1999/13/EC; Council Directive 98/24/EC of 7 Ap of workers from the risks related to Regulation (EC) No 1272/2008 of the December 2008 on classification, la amending and repealing Directive Regulation (EC) No 1907/2006; REACH Restrictions on the manufate dangerous substances, mixtures and Information according 1999/13/EC about limitation of emission guideline) Chemicals Act, Regulation on classification, on biological limit values, Regulation on biological limit values, Regulation.	
Regulation (EC) No 1907/2006 of 18 December 2006 concerning to Restriction of Chemicals (REACH amending Directive 1999/45/EC at and Commission Regulation (EC) No and Commission Directives 91/155, Directive 2004/42/CE of the Europe on the limitation of emissions of volsolvents in certain paints and varnis Directive 1999/13/EC; Council Directive 98/24/EC of 7 Ap of workers from the risks related to Regulation (EC) No 1272/2008 of the December 2008 on classification, late amending and repealing Directive Regulation (EC) No 1907/2006; REACH Restrictions on the manufate dangerous substances, mixtures and Information according 1999/13/EC about limitation of emission guideline) Chemicals Act, Regulation on cladangerous substances, Ordinant on biological limit values, Regulation.	
18 December 2006 concerning to Restriction of Chemicals (REACH amending Directive 1999/45/EC arand Commission Regulation (EC) No and Commission Directives 91/155, Directive 2004/42/CE of the Europe on the limitation of emissions of volsolvents in certain paints and varnis Directive 1999/13/EC; Council Directive 98/24/EC of 7 Apof workers from the risks related to Regulation (EC) No 1272/2008 of the December 2008 on classification, late amending and repealing Directive Regulation (EC) No 1907/2006; REACH Restrictions on the manufate dangerous substances, mixtures and Information according 1999/13/EC about limitation of emission guideline) Chemicals Act, Regulation on classification on	
guideline) Chemicals Act, Regulation on cl dangerous substances, Ordinan National legislation: on biological limit values, Regul	the European Parliament and of the Council of 16 pelling and packaging of substances and mixtures es 67/548/EEC and 1999/45/EC, and amending cturing, placing on the market and use of certain
dangerous substances, Ordinan National legislation: on biological limit values, Regul	ons of volatile organic compounds (VOC-
writing Material safety data she	assification, packaging and labeling of ce on occupational exposure limit values and ation on categories, types and classification and list of hazardous waste, Ordinance on et, Transport of Hazardous Substances Act
15.2 Chemical safety assessment	

SECTION 16. Other information



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Trading name:		BUFFER SOLUTIO	N, A.T.		
Product code:	PO-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure u 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classifi	cation	Classification procedure			
_		-			
16.5.	Relevant H statements (numb	er and full text)			
	H: H360FD	May damage fertility. May damage the unborn child.			
16.6.	Training advice:	-			
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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Trading name:	TOLUIDINE BLUE REAGENT					
Product code:	TBR-OT-X**	Date of compilation:	21 Dec 2022	Version:	3	

SECTI	ON 1 IDENTIFICATION	OF THE SUB	STANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	TOLUIDIN	E BLUE REAG	ENT	
	Chemical name:	-	- TBR-OT-X**		
	Catalogue number:	TBR-OT-X			
1.2.	Relevant identified uses of the substance or mixture and uses advised against			xture and uses advised against	
	Uses: For use with special staining kits.				
	Uses advised against: Only the identified uses are advised.			dentified uses are advised.	
	Reason why uses advis	sed against:	The product is intended for use only as an <i>in vitro</i> diagnost device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier	of the safety	/ data sheet		
	Supplier:	E	BioGnost Ltd.		
	Address:	N	Medjugorska	djugorska 59, Zagreb	
	Telephone number:	-	+385 1 2409997		
	Fax no.:	-	+385 1 24040	039	
	e-mail of competent p	erson: <u>r</u>	msds@biognost.hr		
	National contact:	_			
1.4.	Emergency telephone	number			
	National Protection ar	ıd Rescue Di	rectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2 HAZARDS INFORMATION					
2.1.	Classification of the substance or r	nixture				
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)					
	Hazard class and category	code:		Hazard statements*:		
	Not identified as hazardous substa	ince.	-			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-stat	tements: see S	ection 16			
2.2.	Classification according to EC Direct	ctive Nr. 1272,	/2008 CLP)			
	Product identification:	TOLUIDINE B	LUE REAGENT			
	Identification number:	-				
	Authorization no.:	-				
	Hazard pictograms:	-				



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Trading name:	TOLUIDINE BLUE REAGENT					
Product code:	TBR-OT-X**	Date of compilation:	21 Dec 2022	Version:	3	

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

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

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



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Trading name:	TOLUIDINE BLUE REAGENT					
Product code:	TBR-OT-X**	Date of compilation:	21 Dec 2022	Version:	3	

	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
4.3.	Indication of any immedia	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	ECTION 6 ACCIDENTAL RELEASE MEASURES					
6.1.	Personal precautions, protect	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne	el				
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Wear protective equipment (s	see Section 8).				
6.2.	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3.	Methods and material for containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.				



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Trading name:	TOLUIDINE BLUE REAGENT					
Product code:	TBR-OT-X**	Date of compilation:	21 Dec 2022	Version:	3	

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

SECTIO	ON 7 HANDLING AN STORAGE					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generat	ion:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
712	Other measures:					
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any inco	mpatik	atibilities			
	Technical measures and storage conditions: ver		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:	Man	ufacturer's original packaging.			
	Requirements for storage rooms and vessels:		Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment:	be re	storage must be made of hard material; floors must esistant to chemicals. There must be no drain that ctly leads into sewage system. Secure proper ilation.			
	Further information on storage conditions:	and cher	not place the unused material in the storage room do not use empty containers for storing other nicals. Do not store with incompatible materials (see ion 9).			
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				



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	JUNE CON	TROLS/PER	SONAL	PROTE	LIION			
8.1. Control p	arameters	1		,				
Substanc	e				ccupational exposure limit values/short term values		Bio	ological limit values
				pp	om	mg/m³		
-		-			-	-	No infor	mation available
Substance - name:								
EC No: - CAS		CAS No:	-					
DNEL								
				Indu	strial			
Route of		Acute		Acute		Chron	ic	Chronic
exposure:	effe	ect local	effe	ect syste	mic	effect lo	ocal	effect systemic
Oral -			-			-		-
Inhalation -		-			-			-
Dermal	-	-			<u> </u>			-
Critical physical pa	rameters:	solubility, fla	ammabili	ty, corro	sivity:	-		
				Cons	umer			
Route of exposure:		Acute ect local			mic	Chron effect lo		Chronic effect systemic
Oral	-		-	<u> </u>		-		-
Inhalation	-		-			-		-
Dermal	-	-				-		-
PNEC								
Environmental pro	tection tar	get			PNEC			
Fresh water				1	No information available			
Freshwater sedime	ents			1	No information available			
Marine water				1	No information available			
Marine sediments				1	No information available			
Food chain					No information available			
Microorganisms in sewage treatment			1	No information available				
Soil (agricultural)				1	No infor	mation availabl	е	
Air					No information available			



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

SECTION	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES				
9.1.	1. Information on basic physical and chemical properties				
		Value	Method		



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	Physical state:	liquid	No information available
	Colour:	dark blue	No information available
	Odour/odour threshold:	no odor/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	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	SECTION 11 TOXICOLOGICAL INFORMATION		
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008		
	Acute toxicity:		



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Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	_	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	-

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

Respiratory irritation:	No information available

Irritation and corrosion							
	Exposure time	Species	Evaluation	Method	Note		
Skin irritation:	-	rabbit	-	-	-		
Eve irritation:	_	rabbit	_	_	-		

Sensitization	on
Dermal exposure:	No information available
Inhalation exposure:	No information available

Symptoms re	Symptoms related to the physical, chemical and toxicological characteristics					
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:	Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure may cause drying, cracking and tingling sensation of skin.					
Inhalation exposure:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.					
Eye exposure:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.					



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Repeate	ed dose toxicity (sub	oacute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No informatior 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 informatior 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	-
6			(07.0)T DE)		
Specific	target organ toxici	ty – repeated e Specific effects	exposure (STC	OT RE): Target org	an	Note
Subacute oral		ation available		lo information ava		
Subacute dermal		ation available		lo information ava		
Subacute inhalat	ion No informa	ation available	N	No information available -		
Subchronic oral	No informa	ation available	ı	lo information ava	ilable -	
Subchronic derm	nal No informa	ation available	١	lo information ava	ilable -	•
Subchronic inhal	ation No informa	ation available		No information available -		



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Pioduc	it code.	IDK-UI-X	Date	of compliation.	21 Dec 2022	version. 3		
<i></i>								
Chronic		No informati			nation available	-		
	dermal	No informati			mation available	-		
Chronic	inhalation	No informati	on available	No inforr	mation available	_		
	1							
	CMR effect	ts (carcinogenicity,	mutagenicity, r	eproductive toxicit	ty)			
	Carcinoger	nicity:	Current stud	dies on test animal	s did not indicate ca	arcinogenic effects.		
	Mutagenic	ity <i>in-vitro</i> :	Current <i>in</i>	vitro tests did no	t indicate mutagen	ic effects.		
	Genotoxici	ty:	No informat	tion available				
	Mutagenic	ity <i>in-vivo</i> :	Current <i>in</i>	<i>vivo</i> tests did not	indicate mutageni	c effects.		
	Germ cell r	mutagenicity:	No information available					
	Reproduct	ive toxicity:	No toxicity organs.	on reproductive	organs was dete	rmined in reproductive		
11.2	<u>.i</u>	of evaluation of the		es: -				
11.2.1.	Endocrine	disrupting propert	ies:					
	componen endocrine according Commissic 2017/2100		to have properties e 57(f) or lation (EU)					
11.2.2.	Other info	rmations:	<u> </u>					
	_							

SECTION 12 ECOLOGICAL INFORMATION:								
12.1. Toxicity								
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	No information available	No information available	-	-		
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-		



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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	-

Biodegradation

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

12.3. Bioaccumulative potential

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

	- strater coefficient and coefficient (reg. 10-1).										
Value	Concentration	рН	°C	Method	Evaluation	Note					
-	No information available	-	_	No information available	No information available	-					



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Bio	oconcent	tration fa	actor (BCF)									
Value			Species		N	1ethoc		E	valuatio	on		Note
No informa available	ation	No availab	inform	ation	No info availabl		on	No inf availat	ormation	on	No informavailable	
Ch	nronic ec	otoxicity	,									
V	/alue		Dose		oosure ime	Spe	ecies	Met	hod	Eval	uation	Note
Chronic tox	onic toxicity on fish LC ₅₀		LC ₅₀	information ir			No information available		nation ole	No info	ormation le	-
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No information available		No information available		No inform availak		No info	ormation le	_	
12.4. Mo	obility in	soil										
	-		d distributi	on in e	environm	ental c	compart	ments:				
No	o informa	ation ava	ailable									
Su	ırface ter	nsion:										
	Value		°C	С	oncentrat	tion		Metho	od		Ν	lote
	o formation ailable		ormation ilable		informat ailable	ion	No inf availak	ormatio ole	n	-		
Ac	dsorption		•									
Γransport		/D coeff enry's co		lo	og Kow	E۱	/aporati	on rate		Method		Note
Soil-water	No availa		ormation	No ir availa	nformatio able		o inform ailable	nation		lo information		
Water-air	No availa		ormation	No ir availa	nformatio able		o inform ailable	nation	No ir availa	nformation able	on -	



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Soil-air	No availa	information ble	No info available		No information available		No information available	-			
12.5.		PBT and vPvB asses									
	according	nce/mixture does i to REACH Article 5 i (EU) 2018/605 at l	7(f) or Co	mmissio	n Delegated regu						
12.6.	Endocrine	disrupting properti	es								
	The substa	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 adve	erse effects									
		ation available									
SECTIO	N 13 DISPO	OSAL CONSIDERA	TIONS								
13.1.	Waste tr	eatment methods									
	:										
13.1.1.	Product/	Packaging disposa	 :								
	Submit f Protection	or disposal to the lon.	egal pers	on autho	rized by the Min	istry	of Environmenta	l and Natur	e		
13.1.2.	Waste co	odes/waste designa	itions acc	ording to	o Law:						
		mation available									
	i										
13.1.3.	Waste tr	eatment – relevant	informat	ion:							
	No infor	mation available									
13.1.4.	Sewage	disposal – relevant	informati	ion:							
	Waste m	ust not be dispose	d of into	the sewa	ge system.						
13.1.5.	Other di	sposal recommend	ations:								
	authorize the pack	lispose of the prod ed by the ministry i aging to the collec may occur.	n charge.	Do not	dispose of the pa	ackag	jing into the sew	age system	. Submit		
13.1.6.	Relevant	Community provis	ions:								



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



Trading name:

SAFETY DATA SHEET

TOLUIDINE BLUE REAGENT

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			-	_		
Packing group:		-				
Environmentally h	azardous:	-				
Special precaution	ns for user:	-				
Further information	on: -					

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

SECTION 16 Other information			
	16.1. Indication of changes:	-	



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

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Exposure scenario resulting to Chemical safety assessment