

P.A.S. KIT

The kit contains:

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



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

Page 1 of 17

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

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

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance	or mixture				
2.1.1	Classification according to Reg	Julation (EC) No 1	272/2008 (CLP)			
	Hazard class and catego	ory code:		Hazard statements*:		
	-		EUH031			
2.1.2.	Additional information					
	-					
*For full	text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification: BIOSCHIFF REAGENT					
	Identification number: -					
	Authorization number:	-				



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

Page 2 of 17

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

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

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

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



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

Page 3 of 17

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

	Following ingestion:	Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.	
	Self-protection of the first aider:	-	
4.2	Most important symptoms and effe	ects, both acute and delayed	
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.	
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.	
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.	
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.	
4.3	Indication of any immediate medical attention and special treatment needed		
	-		

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	Water jet			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Sulfur oxides.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Do not contaminate the environmen	nt with extinguishing media.			

SECTIO	SECTION 6. Accidental release measures				
6.1	Personal precautions, protective	e equipment and emergency procedures			
6.1.1.	For non-emergency personnel	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			



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

Page 4 of 17

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

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

SECTIO	N 7. Handling and storage			
7.1	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:		Use in well ventilated storage rooms.	
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.	
	Measures to protect the environment:	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 wa	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 rooms at temperatures ranging from 15 to 25 °C.		
	Packaging materials:	Manufactu containers	ırer's original packaging. Avoid metal	



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

Page 5 of 17

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

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

8.1 Control	parameters	;					
Substanc	ce	CA	S No		nal exposure limit ort term values	Biolo	gical limit values
				ppm	mg/m³		
sodium metabisul	fite	7681-57	7-4	-/-	5/-	No inf	ormation available
Substance name:	-						
EC No:	_	CAS No	:				
DNEL							
				Industria			
Route of	Acı	ıte	Ac	cute	Chronic		Chronic
exposure:	effect	local	effect s	systemic	effect local		effect systemic
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
Critical physical p	arameters: :	solubility,	flammabili	ty, corrosivity	: -		
				Consume	r		
Route of	Acı	ute	Ad	cute	Chronic		Chronic
exposure:	effect	local	effect s	systemic	effect local		effect systemic
Oral	-		-		-	_	
Inhalation	-		-		-	_	
Dermal	_		_		_	_	·



Page 6 of 17

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

Environm	ental protection target		PNEC		
Fresh wat	er		No information available		
Freshwate	er sediments		No information available		
Marine wa	ater		No information available		
Marine se	ediments		No information available		
Food chai	in		No information available		
Microorganisms in sewage treatment			No information available		
Soil (agric	cultural)		No information available		
Air			No information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measures to prevent exposure during identified uses: Structural measures to prevent exposure:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
			In accordance with Section 7.		
	Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secur stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipmen	nt			
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.		
8.2.2.2.	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:	combi	le mask (EN 136) or half mask (EN 140) equipped with a ned "A1 + Form" filter (EN 143) used when concentration exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure contr	ols			
	Substance/mixture related measures to prevent exposure	See Se	ction 6		



Page 7 of 17

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

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

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

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



Page 8 of 17

Trading name:	BIOSCHIFF REAGENT				
Product code:	BS-OT-X**	Date of compilation:	17 Jan 2024	Version:	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:	Strong oxidants (acids).
10.6	Hazardous decomposition products:	Sulfur dioxide, sodium oxide.

11.1 Inf	ormation on toxi	cological effects				
Ac	ute toxicity:					
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Expo	osure time	Results
Oral:	OECD Test Guideline 401	rat (sodium metabisulphite) mouse (C.I. Basic Red 9)	LD ₅₀	-		1.540 mg/kg (sodium metabisulphite) 5.000 mg/kg (C.I. Basic Red 9)
Dermal:	OECD Test Guideline 402	rat	No information available	-		>2.000 mg/kg (sodium metabisulphite)
Inhalation:	OECD Test Guideline 403	rat	No information available	4h	>5.5 mg/l (sodium metabisulphite)	
C	:C: - tt	a kandalka a shalla a sa	(CTOT CE)			
Sp	3 3	n toxicity – single exp		'araat araan		Note
Oral:	No information	pecific effects		arget organ	Note	
Dermal:	No information			nation availa		
Inhalation:	No information			nation availa		
irinalation.	No imormation	i avaliable	INO IIIIOIII	iation availa	ıble -	
As	piration hazard:	No	o information avail	able.		
Irri	tation and corros	sion				
	E	xposure time	Species	Evaluati on	Method	Note
Skin corrosion/irr	itation:	-		-	-	-
Serious eye damage/irrit	ation -	-		-	-	-



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

amended by Regulation (EU) No. 2020/878

				Page 9 of 17	
Trading name:		BIOSCHIFF REA	GENT		
Product code:	BS-OT-X**	Date of compilation:	17 Jan 2024	Version:	5

Sensiti	zation								
Skin sensitization	n:	No inf	No information available						
Respiratory sens	itization:	No inf	o information available						
Sympto	oms relate	d to the p	hysical, chemic	cal and toxicolo	gical characteris	tics			
Oral exposure:			use gastrointestinal irritation accompanied by abdominal pains and cramps; higher f concentration may induce vomiting and diarrhea.						
Dermal exposure	e: Ma	y cause sl	kin irritation.						
Inhalation exposure: expo		ay cause respiratory system irritation. At high levels of concentration, prolonged posure and when used by sensitive persons bronchospasm may occur, as well as asthmatack and gastrointestinal irritation.							
Eye exposure:	Ма	y cause e	ye irritation.						
Repeat	ed dose to	oxicity (su	bacute, subchr	onic, chronic)					
	Do	se	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No info		No information available	No information available	No information available	No information available	-		
Subacute dermal	No info		No information available	No information available	No information available	No information available	-		
Subacute inhalation	No info	ormation	No information available	No information available	No information available	No information available	-		
Subchronic oral	No info		No information available	No information available	No information available	No information available	-		
Subchronic dermal	No info		No information available	No information available	No information available	No information available	-		
Subchronic inhalation	No info		No information available	No information available	No information available	No information available	-		
Chronic oral	No info		No information available	No information available	No information available	No information available	-		
Chronic dermal	No info		No information available	No information available	No information available	No information available	-		



Page 10 of 17

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

Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-		
Sp	ecific targe	t organ toxici	ty – repeated e	exposure (STOT	· RE):				
<u> </u>			Specific effe		Target	organ	Note		
Subacute or	al	No informa	tion available		No informa available				
Subacute de	ermal	No informa	tion available		No informa available	tion -			
Subacute in	halation	No informa	tion available		No informa available	tion -			
Subchronic oral		No informa	tion available		No informa available	tion -			
Subchronic	dermal	No informa	tion available		No informa available	tion -			
Subchronic	inhalation	No informa	tion available		No informa available	tion -			
Chronic ora	I	No informa	tion available		No informa available	tion -			
Chronic der	mal	No informa	tion available		No informa available	tion -			
Chronic inha	alation	No informa	tion available		No informa available	tion -			
CN	AP offocts (carcinogonici	tv: mutagonicit	:y; reproductive	a toxicity)				
	rcinogenici		ty, matagemen						
	utagenicity				No information available No information available				
	enotoxicity:				No information available				
	utagenicity	in vivo:			No information available				
	erm cell mu				ation available				
	productive				ation available				
	ımmary of operties:	f evaluation	of the CN	No inform	ation available				
11.2 In	formation o	n other hazar	ds:						
11.2.1. En	docrine dis	rupting prope	erties:						



SAFETY DATA SHEET ding to Regulation (EC) No. 1907/20

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

Page 11 of 17

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

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

SECTION 12. Ecologi	cal informat	tion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	(sodium netabisulphite) Mosquito fish (hydrochloric acid) No information available (sodium metabisulphite) 282 mg/l (hydrochloric acid)		metabisulphite) 282 mg/l (hydrochloric	-
Crustacea:	EC ₅₀	48 hours	Daphnia magna (sodium metabisulphite)	No information available	89 mg/l (sodium metabisulphite)	-
Algae/aquatic plants	IC ₅₀	4 days	Green algae (sodium metabisulphite)	No information available	43.8 mg/l (sodium metabisulphite)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2	Persist	ence and degradability			
	Abioti	c degradation			
		Degradation half-lives	Degradation half-lives Method		Note
Marine water		No information available	No information available	No information available	-



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

Page 12 of 17

								<u> P</u> a	ge 12 of 17	7
Trading nam	ie:				BIOSCHIFF I	REAGENT				
Product cod	e:	BS-OT-X**		Da	te of compilation	n: 17 Jan 2	2024	١	/ersion:	5
Fresh water	No	o information available		No in	formation able	No information available		-		
Air	No	information	available	No in availa	formation Ible	No information available		-		
Soil	Soil No information available		available	No in availa	formation ible	No information	on -	-		
Bioc	degrada	ation								
% Degrada			(days)		Method	Evaluation	n		Note	
No information available			information	n No ir availa	formation	No information	on N	No info	ormation	
		lative poter								
Octa		ater partitio	n coefficien	t (log Ko	ow)					
Value		oncentratio pH -		°C	Method	thod Evaluation		Note -		
-	-			_	_					
Bioc	concent	ration facto	r (BCF)							
Value		Spe	cies		Method	Evaluatio	n		Note	
No informatic available		No available	nformation	No in availa	formation ble	No information available		-		
Chro	onic eco	otoxicity								
Value		Dose		oosure time	Species	Method	Evaluation		Note	
Chronic toxicity on fish		LC ₅₀	1	rmatio vailable	No information available	No information available	No inform on availal		-	



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

Page 13 of 17

Trading	name:	BIOSCHIFF REAGENT								
Product	code:	BS-OT-X**	Dat	e of co	mpilation	1:	17 Jan 2	024	Version:	5
on crusta	Chronic toxicity on crustacea EC ₅₀ (Daphnia)		No informatio n available	No information available No information available available		No informati on available	-			
12.4	Mobility in	n soil								
	Known or	predicted distribut	ion in environ	mental	compartm	nents:				
	No inform	ation available								
	Surface te	nsion:								
	Value	°C	Concentr	ation	,	Metho	od		Note	
	No informatio available	No information available	No informavailable	ation	No infor available		n	-		
	Adsorptio	n / desorption								
Transpor	t i	/D coefficient enry's constant	log Kow Eva _l		vaporation rate Met		ethod	Note		
Soil-wate	er No availa	information ble	No informat available		o informat ⁄ailable	tion No inform available			-	
Water-ai	r No availa	information ble	No informat available		o informat ⁄ailable	ion	No info availabl	rmation e	-	
Soil-air	No availa	information ble	No informat available		o informat vailable	ion	No information available		-	
12.5.		PBT and vPvB asse								
	Substance	e(s) in the mixture o	do(es) not mee	et the cr	iteria for F	PBT or	vPvB			
12.6.	Endocrine	disrupting proper	ties							
	according	ance/mixture does to REACH Article 5 n (EU) 2018/605 at	57(f) or Comm	ission D	elegated i					
12.7.	Other adv	erse effects								
	No inform	ation available								
SECTION	l 13. Dispo	sal consideration	S							



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

Page 14 of 17

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

13.1	Waste treatment methods					
13.1.1.	Product/Packaging disposal:					
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.					
13.1.2.	Waste codes/waste designation	ns according to Law:				
	Packaging that contains residua	al hazardous substances or is contaminated with hazardous substances				
13.1.3.	Waste treatment – relevant info	ormation:				
	No information available					
13.1.4.	Sewage disposal – relevant info	rmation:				
	Waste must not be disposed of	into the sewage system.				
13.1.5.	1.5. Other disposal recommendations:					
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.					
13.1.6.	Relevant Community provisions	5:				
	-					
SECTIO	SECTION 14. Transport information					
	Transporting/shipment by road	(ADR)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environmentally hazardous:		-				
Special precautions for user:		-				
	Transporting/shipment by rail (l	RID)				
UN number:		Not subject to transport regulations				
UN proper shipping name:		-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environmentally hazardous:		_				



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

Page 15 of 17

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

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

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



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

Page 16 of 17

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

	None		
15.2	Chemical safety assessme	ent	
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-	
	Other EU regulations:	18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; 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);	

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



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

Page 17 of 17

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

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

ANNEX: Exposure scenario resulting to chemical safety assessment
-



Page 1 of 16

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

SECTI	ION 1: Identification of	the substanc	e/mixture a	nd of the company/undertaking	
1.1.	Product identifier				
	Trading name:	HCL REAGE	HCL REAGENT, P.A.S.		
	Chemical name:	-			
	Catalogue number:	HCLP-OT-X	(**		
1.2.	Relevant identified us	es of the subs	stance or mix	cture and uses advised against	
	Uses:		For use wi	th special staining kits in histopathology.	
	Uses advised against:		Only the id	dentified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:	В	BioGnost Ltd.		
	Address:	V	Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039 msds@biognost.hr		
	Telephone number:	+			
	Fax no.:	+			
	e-mail of competent p	oerson: <u>m</u>			
	National contact:	-			
1.4.	Emergency telephone number				
	National Protection a	nd Rescue Dir	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	ation (EC) No 12	.72/2008 (CLP)		
	Hazard class and category	y code:	Hazard statements*:		
	Not identified as hazardous subs	tance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-st	atements: see Se	ection 16		
2.2.	Label elements				
	Product identification:	HCL REAGENT	Γ, P.A.S.		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



Page 2 of 16

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

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

SECTION 3. Co	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
7647-01-0/ 231-595-7/ 017-002-00-2	-	0.7 - 1 %	hydrochloric acid	Skin Corr. 1B; H314 STOT SE 3; H335	

SECTIO	SECTION 4. First aid measures			
4.1.	Description of first aid measures			
	General notes:	-		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.		
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.		
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.		
	Self-protection of the first aid	er: Treat symptomatically.		
4.2.	Most important symptoms and effects, both acute and delayed			
	Following inhalation:	No information available		
	Following skin contact:	No information available		
	Following eye contact:	No information available		



Page 3 of 16

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

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

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

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, 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. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



Page 4 of 16

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

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

SECTIO	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.		
	Measures to prevent aerosol and dust generat	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:	venti	in tightly closed and upright set containers in a well lated storage rooms, and away from sources of heat, ght, and other incompatible substances.		
	Packaging materials:	Manı	ufacturer's original packaging.		
	Requirements for storage rooms and vessels:		away from food and drink. Keep the containers ly closed.		
	Advices for storage equipment:	be re	storage must be made of hard material; floors must sistant to chemicals. There must be no drain that tly leads into sewage system. Secure proper lation.		
	Further information on storage conditions:	and c	ot place the unused material in the storage room do not use empty containers for storing other nicals. Do not store with incompatible materials (see on 9).		
7.3.	Specific end use(s)				



Page 5 of 16

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

Recommendations:	-
Industrial sector specific solutions:	-

SECTION 9 Exposur	SECTION 8. Exposure controls/personal protection							
8.1. Control para		ois/ persona	ii protec	tion				
Substance	meters					exposure limit term values		ological limit values
				1	opm	mg/m³		3
-		-		-	- No information av		mation available	
					•		1	
Substance - name:								
EC No: -		CAS No:	-					
DNEL								
				Inc	dustrial			
Route of exposure: Acute effect local eff		effe	Acute		Chro effect		Chronic effect systemic	
Oral	-		-	-		-		-
Inhalation	-		-			-		-
Dermal	-		-			-		-
Critical physical parar	neters: s	olubility, fla	mmabilit	y, cor	rosivity:	-		
				Co	nsumer			
Route of exposure:		Acute ect local	effe	Acute		Chro effect		Chronic effect systemic
Oral	-		-			-		-
Inhalation	-		-			-		-
Dermal	-		1			-		-
PNEC								
Environmental protec	tion tar	get			PNEC			
Fresh water					No information available			
Freshwater sediments	5				No information available			
Marine water			No information available					
Marine sediments				No information available				
Food chain					No infor	mation availab	ole	
Microorganisms in se	wage tr	eatment			No information available			
Soil (agricultural)					No information available			



Page 6 of 16

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

Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering	controls			
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prescribe exposure:	revent	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equi	oment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) visor.			
8.2.2.2.	Skin protection				
8.2.2.2.	Hand protection: Other skip protection: Wear a		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 ar antistatic clothing made of natural fibers (such as cotton) with long eves (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	Protec filter fo	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 relate measures to prevent exp		See Section 6		
	Structural measures to preserve:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to prexposure:	event	See Section 6		



Page 7 of 16

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

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

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

SECTION 11. Toxicological information

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



Page 8 of 16

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

Acute toxi	city:					
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 ta	rget organ toxicity – si	ingle exposure (S	TOT SE):			
		ric effects	Target	organ		Note
Oral exposure:	No information		No information		-	
Dermal exposure:	No information	available	No informatio	n available	-	
			, , , , , , , , , , , , , , , , , , ,	.1 1 1	_	
Inhalation exposure	e: No information	available	No information	n available	-	
•				on available	-	
Aspiration	hazard:		mation available	on available	-	
Aspiration	hazard: nd corrosion:	No inform	mation available		-	Note
Aspiration Irritation a	hazard: nd corrosion: Exposure time	No information of the second o	mation available Evaluation	Method	-	Note
Aspiration Irritation a Skin irritation:	hazard: nd corrosion: Exposure time	No information Species	mation available Evaluation	Method 		Note
Aspiration Irritation a	hazard: nd corrosion: Exposure time	No information of the second o	mation available Evaluation	Method	-	Note
Aspiration Irritation a Skin irritation:	hazard: nd corrosion: Exposure time	No information Species	mation available Evaluation	Method 	-	Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati	hazard: nd corrosion: Exposure time	Species -	mation available Evaluation	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation:	hazard: nd corrosion: Exposure time	Species	mation available Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure:	hazard: nd corrosion: Exposure time - - On No information avail No information avail	Species lable	Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure: Symptoms	hazard: nd corrosion: Exposure time - - No information avail	Species lable lable	Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure:	hazard: nd corrosion: Exposure time - - No information avail No information avail	Species	Evaluation -	Method 		Note
Aspiration Irritation a Skin irritation: Eye irritation: Sensitizati Dermal exposure: Inhalation exposure: Symptoms Oral exposure:	hazard: nd corrosion: Exposure time On No information avail No information avail related to the physica No information avail No information avail	Species	Evaluation -	Method 		Note



Page 9 of 16

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

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

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



Page 10 of 16

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

Chronic	cinhalation	No informat	ion available	No information available	-			
	CMD offects	(carcino ganisitu	· mutagonicity; ropr	raductiva tavisitu)				
		, ,	; mutagenicity; repr	••				
	Carcinogenic	ity:	Based on availa	able data, the classification criteria a	are not met.			
	Mutagenicity	in-vitro:	Based on availa	able data, the classification criteria a	ire not met.			
	Genotoxicity:		Based on availa	able data, the classification criteria a	re not met.			
	Mutagenicity	in-vivo:	Based on availa	Based on available data, the classification criteria are not met.				
	Germ cell mu	ıtagenicity:	Based on available data, the classification criteria are not met.					
	Reproductive	e toxicity:	Based on available data, the classification criteria are not met.					
	Summary of	evaluation of th	e CMR properties:	-				
11.2.	Information of	on other hazard	s:					
11.2.1.	Endocrine dis	srupting proper	ties:					
	No known er	ndocrine disrupt	ing properties that	affect human health.				
11.2.2.	Other inform	ation:						
	-							

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



Page 11 of 16

Trading name:		HCL REAG	ENT, P.A.S.	ruge ii oi io	
Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version: 4	

Algae/aquatic plants		lants	IC ₅₀	72 hou	rc	lo information vailable		information ilable	No informa availabl		-
Other o	organism	S	-	-	-		-		-		-
12.2.	Persiste	ence a	nd degradal	bility							
	Abiotic	degra	adation								
		Deg	radation ha	lf-lives		Method		Εν	/aluation		Note
Marine water		No inf	ormation av	ailable	No in	formation availa	able	No informa	tion avail	lable	-
Fresh w	h water No information available			No in	formation avail	able	No informa	tion avail	lable	-	
Air		No information available		No in	formation availa	able	No informa	tion avail	lable	-	
Soil		No inf	ormation av	ailable	No in	formation availa	able	No informa	tion avail	lable	-
	Biodeg	radati	on								
% Deg	radation		Time (day	s)		Method		Evaluation		Note	
No information available		No ava							No information Ivailable		
	ī										
12.3.	Bioaccu	umulat	tive potentia	al							
12.3.			tive potentia er partition o		t (log K	ow)					
12.3. Valu	Octano	l-wate	tive potentia er partition c entration		t (log K	ow) Method		Evaluati	ion		Note
	Octano e No	l-wate Conce	er partition centration	coefficient	-		on	Evaluati No informa available		-	Note
	Octano e No	l-wate Conce o in	er partition centration	coefficient	-	Method No information	on	No informa		-	Note
	Octano e No av	ol-wate Conce o in vailable	er partition centration	pH -	-	Method No information	on	No informa		-	Note
Valu	Octano e No av	ol-wate Conce o in vailable	er partition of entration of of or mation e	pH - BCF)	-	Method No information	on	No informa	tion	-	Note Note
Valu	Octano e No av Biocone /alue ormation	Conce o in vailable centra	er partition of entration offormation e tion factor (pH - BCF)	°C -	Method No information available	Ne	No informat available	tion	- No infor	Note mation



No adverse effects are expected.

SAFETY DATA SHEET

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

Page 12 of 16

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

Produ	ıct co	de: H	CLP-OT-X**	Date of cor	mpilation	: 14 No	ovember 2	2022	Versio	on: 4
	Va	alue	Dose	Exposure time	Species	Me	thod	Evaluat	ion:	Note
Chronic toxicity on fish		LC ₅₀	information in	No nformatio ivailable	No n inform availab	ation i	No nformatio available	on	-	
		city on Paphnia)	EC ₅₀	information in	No nformatio ivailable	No n inform availab	ation i	No nformatio available	on	-
12.4.	Мо	bility in so	il							
		-		on in environmer	ntal compa	artments:				
			n available							
		face tensio								
		Value	°C	Concentration	on	Metho	od		Not	 :e
	No No information inform		No information available	No informatio available	ormation No informa		mation			
	Ads	sorption / o	desorption							
Transp		A/D	coefficient r's constant	log Kow	Evapora	ation rate	Met	hod		Note
Soil-w	ater	No available	information	No information available	No info availabl	rmation e	No infor available		_	
Water-	-air	No available	information	No information available	No info availabl	rmation e	No infor available		-	
Soil-ai	r	No available	information	No information available	No info availabl	rmation e	No infor available		-	
12.5.	Res	ults of PBT	and vPvB asses	ssment						
	No	informatio	n available							
12.6.	Enc	locrine disi	rupting propert	ies						
	No	known end	docrine disrupti	ng properties tha	t affect th	e environr	nent.			
12.7.	Ot	her adverse	e effects							



Page 13 of 16

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

SECTIO	N 13. Disposal considerati	ons					
13.1.	Waste treatment method	ds					
13.1.1.	Product/Packaging dispo	sal:					
	Submit for disposal to the Protection.	e legal person authorized by the Ministry of Environmental and Nature					
13.1.2.	Waste codes/waste design	gnations according to Law:					
	No information available						
13.1.3.	Waste treatment – releva	ant information:					
	No information available						
13.1.4.	Sewage disposal – releva	nt information:					
	Waste must not be dispo	osed of into the sewage system.					
13.1.5.	Other disposal recommendations:						
	authorized by the minist	oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Do not dispose of in places where					
13.1.6.	Relevant Community pro	visions:					
	-						
SECTIO	N 14. Transport information	on					
	Transporting/shipment by	road (ADR)					
UN num	ıber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing		-					
Environi	mentally hazardous:	-					
Special	orecautions for user:	-					
	Transporting/shipment by	rail (RID)					
UN num	nber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					



Trading name:

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

HCL REAGENT, P.A.S.

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

Page 14 of 16

Product code:	HCLP-OT-X**	Date of compilation:	14 November 2022	Version:	4			
Transport hazard	class(es):	_						
Packing group:		_						
Environmentally h	nazardous:	_						
Special precaution		-						
	aterway transport (AD	DN)						
UN number:		Not subject to transport	regulations.					
UN proper shippi	ng name:	-						
Transport hazard		-						
Packing group:		-	-					
Environmentally h	nazardous:	-						
Special precaution	ns for user:	-						
Transpor	ting/shipment by sea	(IMDG)						
UN number:		Not subject to transport	regulations.					
UN proper shippi	ng name:	-	-					
Transport hazard	class(es):	-	-					
Packing group:		-						
Environmentally h	nazardous:	-						
Special precautions for user:		-						

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 produ	uct is not subject to classification.

Transporting/shipment by air (ICAO-TI/IATA-DGR)

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



Page 15 of 16

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

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

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



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

Page 16 of 16

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

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

ANNEX: Exposure scenario resulting to Chemical safety assessment

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Page 1 of 17

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

SECTION	ON 1: Identification of	the substance	e/mixture a	and of the company/undertaking	
1.1.	1. Product identifier				
	Trading name:	HEMATOX	HEMATOXYLIN ML		
	Chemical name:	-			
	Catalogue number:	HEMML-O	Γ-X**		
1.2.	Relevant identified us	es of the subs	tance or m	ixture and uses advised against	
	Uses:		Modified	hematoxylin acc. to Mayer-Lillie for nuclear staining.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses 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	r of the safety	data sheet		
	Supplier:	Bio	oGnost Ltd.		
	Address:	M	Medjugorska 59, Zagreb		
	Telephone number: +3		385 1 2409997		
	Fax no.: +3		+385 1 2404039		
	e-mail of competent p	oerson: <u>m</u>	nsds@biognost.hr		
	National contact: -				
1.4.	Emergency telephone number				
	National Protection a	National Protection and Rescue Dire		112	
	Medical information:			+385 1 2348 342	
	Other information:				

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regul	ation (EC) No 1272/20	08 (CLP)		
	Hazard class and cate	gory code:	Hazard statements*:		
	Eye Irr. 2 H319				
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	atements: see Section	16		
2.2.	Label elements				
	Product identification: HEMATOXYLIN ML				
	Identification number:	ication number: -			
	Authorization no.:	-			



Page 2 of 17

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

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statements:	H319 Causes serious eye irritation.
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Properties: No known endocrine disrupting properties Results of PBT and vPvB assessment: According to the results of its assessment, this substance is no PBT or a vPvB.	

SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
7784-31-8/ 616-524-3/	-	3 – 4 %	aluminum sulfate octadecahydrate	Eye Dam. 1; H318	

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



Page 3 of 17

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

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

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

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective ed	quipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	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 prop	per protective equipment, including respiratory protection.			
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containr	nent and cleaning up			



Page 4 of 17

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

6.3.1.	Bunding, covering of drains; capping procedures:	Covering of drains. Take up mechanically.			
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	Place in appropriate containers for disposal.			
6.4.	Reference to other sections				
	See Section 7 for information about secure handling.				
	See Section 8 for information about personal protective equipment.				
	See Section 13 for information	on about containment.			

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



Page 5 of 17

Trading nam	ıe:	HEMATOXYLIN ML					
Product cod	e: HEMMI	L-OT-X**	(** Revision date:		27.03.2023.	Version:	9
Recommendations: Industrial sector specific solutions:				_			
SECTION 8. Exposure controls/personal protection 8.1. Control parameters							
-		CAS No		•	l exposure limit rt term values	Biological limi	t values
		_	ppr -	m	mg/m³ -	No information av	ailable
Substance				l		1	
name:	Aluminium sulphate octadecahydrate						

EC No: **DNEL**

		Industrial		
oute of	Acute	Acute		

CAS No:

233-135-0

Route of	Acute	Acute	Chronic	Chronic
exposure:	effect local	effect systemic	effect local	effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	13,4 mg/m ³
Dermal	-	-	-	3,8 mg/kg bw/day

7784-31-8

Critical physical parameters: solubility, flammability, corrosivity:

Consumer

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-

PNEC

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



Page 6 of 17

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

Air			No information available		
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture relate measures to prevent exp during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to preserve:	revent	No information available		
			Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equi	pment			
8.2.2.1.	Eye and face protection:	n: Safety glasses that stick to face (preventing splashing) (EN 160 visor.			
8.2.2.2.	Skin protection				
	Chem 374. Hand protection:		emical protection gloves are suitable, which are tested according to EN. Glove material: nitrile rubber Glove thickness: > 0.11 mm Break through time: >480 min		
	Other skin protection:		es (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	In cas	se of inadequate ventilation wear respiratory protection.		
8.2.2.4.	Thermal hazards:	No ir	formation available		
8.2.3.	Environmental exposure	control	s		
	Substance/mixture relate measures to prevent exp		See Section 6		
	Structural measures to perfect exposure:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace. Keep away from drains, surface and ground water.		
	Technical measures to pr exposure:	event	See Section 6		

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



Page 7 of 17

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

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

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

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



Page 8 of 17

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

Product code:	code: HEMML-OT-X** Revision date: 27.03.2023.		Version: 9		
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposu time	RACILITE
Oral exposure:	anhydrous (ECHA)	rabbit	LD ₅₀	-	>2.000-<5.000 mg/kg (aluminium sulphate octadecahydrate)
Dermal exposure:	anhydrous (ECHA)	rat	LD ₅₀	-	>5.000mg/kg (aluminium sulphate octadecahydrate)
Inhalation No information exposure: available		_	LC ₅₀	-	-
6 16					
Specific ta	arget organ toxicity – sing	·		-1	NI-+-
Oral exposure: No information avai			Target organ No information available		Note -
Dermal exposure:	No information ava	ilable	No information available		-
Inhalation exposure	e: No information ava	ilable	No information available		-
Respirator	ry irritation:	No information av	vailable		
Irritation a	and corrosion				
111111111111111111111111111111111111111	Exposure time	Species	Evaluati Meth on od		Note
Skin irritation:	-	-	-	-	
Eye irritation:	-	-	-	- (Causes serious eye damage
Sensitizati	ion				
Dermal exposure:	No information available	<u> </u>			
Inhalation exposure:	No information available				

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



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

Page 9 of 17

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

Eye exposure:	Causes serio	us eye damage	9				
Reneat	ed dose toxicity (su	hacute subchr	onic chronic)				
Кереис	Dose Dose	Exposure time	Species	Method	Evaluation	າ	Note
Subacute oral	No information available	No information available	No information available	No information available	No inform available	nation	-
Subacute dermal	No information available	No information available	No information available	No information available	No inform available	nation	-
Subacute inhalation	No information available	No information available	No information available	No information available	No inform available	nation	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available		-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available		-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available		-
Chronic oral	No information available	No information available	No information available	No information available	No inform available	nation	-
Chronic dermal	No information available	No information available	No information available	No information available	No inform available	nation	-
Chronic No information inhalation available		No information available	No information available	No information available	No information available		-
Specific	target organ toxic	ty - repeated	evnosure (STO	T RF)·			
эрссии	target organ toxic	Specific effect	•	Target or	gan		Note
Subacute oral	No informa	ation available		No information	<u>-</u>	-	
Subacute derma		ation available		No information available		-	
Subacute inhalat		ation available		No information		-	
Subchronic oral		ation available		No information available		_	



Page 10 of 17

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

Subchro	nic dermal	No information availa	able	No information available	-		
Subchro	nic inhalation	No information availa	able	No information available	-		
Chronic	oral	No information availa	able	No information available	-		
Chronic	dermal	No information availa	able	No information available	-		
Chronic	inhalation	No information availa	able	No information available	-		
***	CMR effects (c	carcinogenicity, mutage	enicity reproducti	ve toxicity)			
	Carcinogenicit	3 , 3	No information a				
	Mutagenicity (No information available				
	Genotoxicity:		No information available				
	Mutagenicity	in-vivo:	No information available				
	Germ cell mut	agenicity:	No information available				
	Reproductive	toxicity:	No information a	vailable			
	Summary of e	valuation of the CMR p	roperties:	-			
44.0							
11.2.		nformation on other hazards:					
11.2.1.	Endocrine disrupting properties:						
	No known properties tha	endocrine disrupti t affect human health.	ng				
11.2.2.	Other informa	tion:					
	_						

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



Page 11 of 17

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

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

12.2. Persistence and degradability

Abiotic degradation

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

Biodegradation

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

12.3. Bioaccumulative potential

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

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



Page 12 of 17

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

V	'alue		Species		Meth	nod	Eva	luation		No	te
No info availabl	rmation le	No ava	inforn ailable	nation	ion No information available		No information available			No information available	
	Chronic	ecoto	xicity								
	Value		Dose		osure me	Species	Meth	od	Eva	lluation	Note
Chronic	toxicity o	on fish	LC ₅₀	No inforr availa	nation io	No nformat on vailable	No inform available	ation	No info	ormation le	-
	toxicity of ea (<i>Daphr</i>		EC ₅₀	No inforr availa	nation io	No nformat on vailable	No inform	ation	No info	ormation le	-
12.4.		or pre	il dicted distribut on available	ion in e	environme	ntal com _l	partments:				
	Surface	tensic	n:								
	Valu	ıe	°C		Concen	tration	Meth	od		Note	
	No informa availabl		No inform available	nation	No inforr available	mation	No inform available	ation	_		
	Adsorp	tion / o	desorption								
Transpo	ort		coefficient 's constant	lo	g Kow	Evapo	ration rate	М	ethod		Note
Soil-wa	ter No	ailable	information	No in availa	formation ble	No info	ormation lle	No inf	ormation ole	-	
Water-a	air No	ailable	information	No in availa	formation ble	No info	ormation lle	No inf availat	ormation ole	-	
	No		information		formation	1	ormation		ormation		



Page 13 of 17

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

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



Page 14 of 17

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

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



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

amended by Regulation (EU) No. 2020/878

Page	15 of	17	

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

Further information:	The product is not subject to classification.
	in the production in the company of

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

SECTIO		
16.1.	Indication of changes:	-



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

Page 16 of 17

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

16.2.	Abbreviations and acronyms	par route (European Dangerous Goods by IMDG: International MIATA: International MIATA: International MIATA: GHS: Globally HIATA: GHS: Globally HIATA: EINECS: European Invited CAS: Chemical Abstruction DNEL: Derived No-ELC50: Lethal concert LD50: Lethal dose, Support Persistent, Biomannia Biomannia Goods (Control of the Control of the	Maritime Code for Dangerous Goods Air Transport Association armonised System of Classification and Labelling of rentory of Existing Commercial Chemical Substances racts Service (division of the American Chemical Society) iffect Level (UK REACH) intration, 50 percent	
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure 1272/2008 (CLP)	d to derive the classifica	ntion for mixture according to Regulation (EC)	
Classific	cation	ssification procedure		
-		-		
16.5.	Relevant H statements (num	and full text)		
	H: 318	uses serious eye damage	e.	
	319	uses serious eye irritatio	n.	
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to Chemical safety assessment



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

Page 1 of 16

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

SECTI	ON 1 IDENTIFICATION	OF THE SUB	STANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	PERIODIC	ACID, 0.8 %	SOLUTION	
	Chemical name:	-			
	Catalogue number:	PK08-OT-	X**		
1.2.	Relevant identified use	es of the sub	stance or 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	sed 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	y data sheet		
	Supplier:	E	BioGnost Ltd.		
	Address:	1	Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039		
	Telephone number:	-			
	Fax no.:	-			
	e-mail of competent p	erson: <u>r</u>	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone number			
	National Protection and Rescue D Medical information:		rectorate:	112	
				+385 1 2348 342	
	Other information:			-	

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



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

Page 2 of 16

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

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	Endocrine Disrupting Proper	ties:
	No known endocrine disruptin	ng properties
	Results of PBT and vPvB asserts 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	ION 4 FIRST AID MEASURES				
4.1.	Description of first aid measu	res			
	General notes:	-			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.			
Following ingestion:		Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.			
	Self-protection of the first aid	Treat symptomatically.			
4.2.	Most important symptoms an	nd effects, both acute and delayed			
	Following inhalation:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.			
	Following skin contact:	Slight irritation. After short exposure, resorption effects are not likely. Longterm exposure may cause drying, cracking and tingling sensation of skin.			



Page 3 of 16

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

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

SECTIO	ECTION 5 FIREFIGHTING MEASURES			
5.1.	Extinguishing media			
	Suitable extinguishing media:	spray, dry powder, CO ₂ 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 a	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 extinguish	ing media.		

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



Page 4 of 16

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

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

SECTIO	ON 7 HANDLING AN STORAGE			
7.1.	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.		
	Measures to prevent aerosol and dust generat	ion: Secure proper ventilation.		
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.		
	Other measures:	-		
7.1.2.	.2. Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. T	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:	Keen away from food and drink Keen the containers		
	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)			



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

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

1 446 5 61 10	Page	5	of	16
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Trading name:		PERIODIC ACID, 0.8	% SOLUTION		
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8 EX			TROLS/PER	SONAL	PROT	ECTION			
i i	rol para	meters	CAS N	No			exposure lim term values		iological limit values
						ppm	mg/m³		J
-			-			-	-	No info	ormation available
Substance name:	-								
EC No:	-		CAS No:	_					
DNEL									
					Inc	dustrial			
Route of exposure:			Acute ect local	effe	Acutect sys		Chronic effect local		Chronic effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
Critical physic	al parar	neters: s	solubility, fla	mmabili	ty, cor	rosivity:	_		
					Co	nsumer			
Route of exposure:			Acute ect local	effe	Acutect sys			ronic et local	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 information available					
Food chain			No information available						
Microorganis	ms in se	wage tr	eatment			No information available			
Soil (agricultu	ral)					No information available			



Page 6 of 16

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

Air			No information available				
8.2.	Exposure controls						
8.2.1.	Engineering measures						
	Substance/mixture relate measures to prevent expeduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to preserve:	revent	No information available				
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equi	Personal protection equipment					
8.2.2.1.	Eye and face protection:	rotection: Safety glasses that stick to face (preventing splashivisor.					
8.2.2.2.	Skin protection						
O.E.E.E.	Hand protection:		otective gloves must be according to the EU Directive 2016/425/EEC and ndard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:		ar 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:	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 relate measures to prevent exp		See Section 6				
	Structural measures to preserve:	revent	Use modern equipment.				
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.				
	Technical measures to prevent exposure:		See Section 6				

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



Page 7 of 16

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

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

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

SECTION 11 TOXICOLOGICAL INFORMATION



Page 8 of 16

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

A cuto tovi	city:						
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposu	re time	Results	
Oral exposure:	No information available	_	LD ₅₀		_	_	
Dermal exposure:	No information available	-	LD ₅₀		_	-	
Inhalation exposure:	No information available	-	LC ₅₀		-	-	
Specific ta	rget organ toxicity – si	nale evnosure (STOT SEI:				
Specific ta	5 5	c effects		t organ		Note	
Oral exposure:	No information a				a –	INOLE	
Dermal exposure:	No information a		No information available - No information available -				
Inhalation exposure				No information available -			
ililiaiation exposure	. No imormation a		NO IIIIOIIIIati	On available			
Respirator	y irritation:	No infor	mation available				
Respirator	y irritation.	NO IIIIOI	Thation available				
Irritation a	nd corrosion						
	Exposure time	Species	Evaluation	Method		Note	
Skin irritation:	-	rabbit	_	-	-		
Eye irritation:		rabbit	-	_	-		
		<u> </u>		<u> </u>	<u> </u>		
Sensitization	on						
Dermal exposure:	No information availa	able					
Inhalation exposure:	No information availa	able					
	İ						
Symptoms	related to the physica	l, chemical and	toxicological char	acteristics			
Oral exposure:	Swallowing may consensation; higher lin 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:	Slight irritation. Af may cause drying,	ter short expos	ure, resorption eff		likely. Lor	ng-term exposure	



SAFETY DATA SHEET ding to Regulation (EC) No. 1907/2

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

Page 9 of 16

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

Inhalation exposi	ure:		large amounts 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 information available		No information available	No informati available	on	No information available	No informatio available	on -
Subchronic oral	No information available		No information available	No informati available	on	No information available	No informatic available	n -
Subchronic dermal	No information available		No information available	No informati available	on	No No information information available available		n -
Subchronic inhalation	No information available		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 information available	No informati available	on	No information available	No informatic available	n -
Specific	target		y – repeated e	xposure (S	IOT R			Nata
Subacute oral			pecific effects tion available		Target organ No information available			Note
Subacute orai Subacute dermal			tion available			nformation avai		-
Subacute inhalat			tion available			nformation avai		<u>-</u>



Page 10 of 16

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

Subchronic oral No information		n available	No information available	-	
Subchronic dermal	No information	available	No information available	-	
Subchronic inhalation No information		n available	No information available	-	
Chronic oral	No information	n available	No information available	-	
Chronic dermal	No information	n available	No information available	-	
Chronic inhalation	No information	n available	No information available	-	
		<u> </u>	oductive toxicity)	urcinogonic offocts	
Carcinogenicit	-	Current studies on test animals did not indicate carcinogenic effects.			
Mutagenicity i	n-vitro:	Current <i>in vitr</i>	o tests did not indicate mutageni	c effects.	
Genotoxicity:		No information	available		
	n-vivo:	Current in vivo tests did not indicate mutagenic effects.			
Mutagenicity i	// VIVO.		<u> </u>		
Mutagenicity i		No information			

Summary of evaluation of the CMR properties:	_
carriery or evaluation of the crimit properties.	

11.2 Information on other hazards:

11.2.1. Endocrine disrupting properties:

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

11.2.2. Other information:

-

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



Page 11 of 16

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

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. P	Persistence and	d dearadab	ilitv
---------	-----------------	------------	-------

Abiotic degradation

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

Biodegradation

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

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



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

Page 12 of 16

Trading	name:				PER	IODIC	ACID,	0.8 %	6 SOLUT	ΓΙΟΝ		
Product	t code:	PK08-	-OT-X**		Date	of co	mpilatio	on:	21 Dec	2022	Versio	on: 4
-	No avail	inform able	nation _		_	No info	ormation le		lo inform vailable	ation	-	
	D:		ft /DCF									
	alue	ntration	factor (BCF Species)	ı	/lethod	1		Evaluatio	nn.		Note
No infor available	mation	No availat	inforn	nation	No info	rmatic		Evaluation No information available		No inform		
	Chronic e	cotoxicit	ту									
	Value		Dose		osure ime	Spe	ecies	М	ethod	Eva	luation	Note
Chronic ·	toxicity or	n fish	LC ₅₀	No infor avail	mation able	No infori availa	mation able	No infor avail	mation able		lo information -	
	toxicity or a (<i>Daphni</i>		EC ₅₀	No infor avail	mation able	No infori availa	mation able	No infor avail	mation able	No info	o information	
12.4.	Mobility i	n soil										
	•		ed distribut	ion in e	environm	ental o	comparti	ments	: :			
	No inforn	nation av	/ailable									
	Surface to	ension:										
	Value		°C	С	oncentra	tion		Met	hod		N	ote
	No information available		ormation ailable		No information available		No info	ormation ble		-	-	
	Adsorptic	on / desc	orption									
Transpor	rt	A/D coef lenry's co	ficient	lo	og Kow	E۱	/aporatio	on rat	e ſ	Method		Note
Soil-wate	er No avail		nformation	No ir availa	nformatic able		o inform ailable	ation	No ir	nformation able	on -	



Page 13 of 16

Trading name: PERIODIC ACID, 0.8 % SOLUTION								
Produc	t cod	e: P	K08-OT-X**	Date of	compilation:	21 Dec 2022	Version: 4	
Water-a	er-air No information available			No information available	No information available	No information available	-	
Soil-air		No available	information	No information available	No information available	No information available	-	
12.5	Dogu	lts of DD.	Tand vDvD asse	-cm ont				
12.5.			T and vPvB asses			l de la compania de compania de la compania del compania del compania de la compania del la compania de la comp	-1:	
	accoi	rding to	REACH Article 5		n Delegated regul	ation (EU) 2017/210	disrupting properties 0 or Commission	
12.6.			rupting propert					
	accoi	rding to	REACH Article 5	· ·	n Delegated regul	to have endocrine ation (EU) 2017/210	disrupting properties 0 or Commission	
12.7.	Othe	r adverse	e effects					
	No ir	nformatio	on available					
SECTIO	N 13 I	DISPOSA	AL CONSIDERA	TIONS				
13.1.	Wa	ste treat	ment methods					
	:							
13.1.1.	Pro	duct/Pa	ckaging disposa	l:				
		omit for otection.	disposal to the l	egal person autho	rized by the Minis	try of Environmenta	ll and Nature	
13.1.2.	\\/a	esto soda	es huasta dasigna	tions asserding to	- L			
13.1.2.			tion available	tions according to	D Law.			
	INO	IIIIOIIIIa	tion available					
13.1.3.	Wa	ste treat	ment – relevant	information:				
	No	informa	tion available					
13.1.4.	Sev	wage dis	posal – relevant	information:				
	Wa	ste must	t not be dispose	d of into the sewa	ge system.			
13.1.5.	Oth	ner dispo	sal recommend	ations:				



Page 14 of 16

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

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



Page 15 of 16

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

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

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 (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain					
	9	dangerous substances, mixtures and articles (Annex XVII); 199/13/EC about limitation of emissions of volatile organic compounds (VOC-					
	guideline)						
		Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and					
	National legislation:	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. 1907/2006

Page 16 of 16

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

None

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

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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

Page 1 of 16

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

SECTI	ON 1: Identification of t	he substanc	e/mixture a	nd of the company/undertaking	
1.1.	Product identifier				
	Trading name:	SODIUM M	1ETABISULFI ⁻	te, solution	
	Chemical name:	-	-		
	Catalogue number:	NM-OT-X**			
1.2.	Relevant identified use	d uses of the substance or mixture and uses advised against			
	Uses:		For use wi	th special staining kits.	
	Uses advised against:		Only the id	dentified uses are advised.	
	Reason why uses advis	why uses advised against: med		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:	Bi	oGnost Ltd.		
	Address:	М	Medjugorska 59, Zagreb +385 1 2409997		
	Telephone number:	+:			
	Fax no.:	+:	+385 1 2404039		
	e-mail of competent p	erson: <u>m</u>	msds@biognost.hr		
	National contact:	-			
1.4.	Emergency telephone	number			
	National Protection an	d Rescue Dir	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	category code:	Hazard statements*:				
	Eye Irr. 2	Eye Irr. 2 H319					
2.1.2.	Additional information						
	-						
*For ful	ll text of Hazard- and EU Hazar	d-statements: see Section	n 16				
2.2.	Label elements						
	Product identification: SODIUM METABISULFITE, SOLUTION						
	Identification number: -						
	Authorization no.:	-					



Page 2 of 16

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

	Hazard pictograms:	GHS07	
	Signal word:	Warning	
	Hazard statements:	H319 Causes serious eye irritation.	
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Immediately call a POISON CENTER or physician.	
	Supplemetal hazard information (EU):	-	
2.3.	Other hazards		
	Endocrine Disrupting Proper	ties:	
	No known endocrine disruptir	g properties	
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.		

SECTION 3. Composition/information on ingredients									
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)					
7681-57-4/ 231-673-0/ 016-063-00-2	-	< 10 %	sodium metabisulfite	Acute Tox. 4, H302 Eye Dam. 1; H318 EUH031					

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



Page 3 of 16

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

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

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

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



Page 4 of 16

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

6.3.	Methods and material for containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	COVERING OF GRAINS LAVE UN MECHANICALLY				
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	Place in appropriate containers for disposal.				
6.4.	Reference to other sections					
	See Section 7 for information about secure handling.					
	See Section 8 for information about personal protective equipment.					
	See Section 13 for information	on about containment.				

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



Page 5 of 16

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

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

SECTION 8. Exposure con	trols/person	al protec	tion				
8.1. Control paramete	rs					ı	
Substance CAS I				ccupational exposure limit values/short term values		E	Biological limit values
				ppm	mg/m³		
-	-			-	-	No ir	nformation available
Substance - name:							
EC No: -	CAS No:	_					
DNEL							
			Inc	dustrial			,
Route of	Acute		Acute	9	Chronic		Chronic
	fect local	effe	ct syst	temic	effect local		effect systemic
Oral -		-			-		-
Inhalation -		-			-		-
Dermal -		-		-			-
Critical physical parameters	: solubility, fla	ammabilit			-		
				nsumer			
Route of	Acute	Acute					Chronic
-	fect local		ct syst	temic	effect local		effect systemic
Oral -		-			-		-
Dermal -		_			_		_
PNEC							
Environmental protection t	arget			PNEC			
Fresh water			No information available				
Freshwater sediments			No information available				
Marine water			No information available				
Marine sediments				No information available			
Food chain				No information available			
Microorganisms in sewage	treatment			No information available			



Page 6 of 16

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

Soil (agric	ultural)		No information available			
Air			No information available			
8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent expoduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prexposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to 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



Page 7 of 16

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

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



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

Page 8 of 16

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

Product code.	INIVI-OT-X***	Revision date.	21 Dec	2022	version. 4
Acute tox	icity:				
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	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 – sing				Niete
	Specific	c effects		et organ	Note
Oral exposure:	No information ava	ailable	No information available		-
Dermal exposure:	No information ava	No information available		nation	-
Inhalation exposure	e: No information ava	ailable	No information available		-
Respirato	ry irritation:	No information av	vailable		_
Invitation of	and corrosion				
irritation	and corrosion		Fuoluet:	Meth	
	Exposure time	Species	Evaluati on	od	Note
Skin irritation:	-	-	-	-	
Eye irritation:	-	-	-	- C	Causes serious eye damage
Sensitizat	ion				
Dermal exposure:	No information availabl	le			
Inhalation exposure:	No information available	le			
C	ا نصر ماه مه اممه مام م	chamical and taxing	o oi ool -da	o otovi -ti	
	s related to the physical, No information avail		ogical char	acteristics	
Oral exposure:					
Dermal exposure:	No information avail	apie			

No information available

Inhalation exposure:



amended by Regulation (EU) No. 2020/878

Page 9 of 16

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

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



Page 10 of 16

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

Subchro	onic inhalation No information ava		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 available				
	Mutagenicity in-vitro:		No information available				
	Genotoxicity:		No information available				
	Mutagenicity in-vivo:		No information available				
	Germ cell mutagenicity:		No information available				
	Reproductive	toxicity:	No information 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	ation:					

SECTION 12. Ecological information 12.1. Toxicity								
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	-		



Trading name:

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

SODIUM METABISULFITE, SOLUTION

Page 11 of 16

Trading Hain	С.					DISUL	-		<u>-</u>	·····
Product code	e:	NM-OT-X*	**	Re	vision date:	21	Dec 2022		Version:	4
Crustacea:		EC ₅₀	48 hours	No ir	nformation able	No ir	nformation able	No ir availa	nformation able	-
Algae/aquatic plants		IC ₅₀	72 hours	No ir avail	nformation able	No information available		No information available		-
Other organisms		-	-	micro	oorganisms	No ir availa	nformation able	No ir availa	nformation able	-
12.2. Persi	istanca	and degrad	lahility							
		radation	авти							
ADIO		gradation h	alf-lives		Method		E,	/aluatio	n l	Note
Marine							L)	raiuatio	711	Note
water	No in	formation a	available	No info	ormation avai	lable	No informa	tion av	ailable	-
Fresh water No information		formation a	vailable	No info	No information available No in		No informa	formation available		_
Air No information		formation a	vailable	No information available		lable	No information available		ailable	_
Soil	oil No information av		vailable	No information available N		No information available		_		
Biod	egrada	tion								
% Degradation	n	Time (da	ys)	М	ethod		Evaluation		No	te
			No information No in available avail		nformation able		No informati	on availab		
12.3. Bioa	ccumul	ative poten	tial							
Parti	tion co	efficient: n-	octanol/w	ater (log	Kow):					
Value	Conce	entration	рН	°C	Method	k	Evaluation		N	ote
_	No in availab	formation le	-	-	No informat available	ion	No informa available	tion	-	
Bioco	oncenti	ration facto	r (BCF)							
Bioco Value	oncenti	ration facto Spe			Method		Evaluation		No	ote



Page 12 of 16

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

	Chr	onic ecoto	xicity								1	
	Val	ue	Dose		osure me	Species	Meth	od	Evalu	ation	Note	
Chronic toxicity on fish		LC ₅₀	No inforr availa	nation ic	lo nformat on vailable	No inform available	nation	No inform available	nation	-		
Chronic crustac		-	EC ₅₀	No inforr availa	nation ic	lo nformat on vailable	No inform available	nation	No inform available	nation	-	
12.4.	Mol	oility in soi	I									
	-		<u>'</u> dicted distribut	ion in e	environmer	ntal com	partments:					
		•	n available									
		ace tensio										
	Value °C				Concentration		Method No information available		Note			
	No		nation No informat available			-						
	Ads	orption / c	desorption									
Transpo	ort	· ·	coefficient 's constant	log Kow		Evapoi	vaporation rate		Method		Note	
Soil-wa	ter	No available	information	No information available		No info	ormation le	No information available		-		
Water-	air	No available	information	No in availa	formation ble	No info	ormation le	No information available		-		
Soil-air		No available	information	No in availa	formation ble	No info	ormation le	No info	ormation ble	-		
12.5.	Resi	ults of PRT	and vPvB asse	ssment								
		0. 1 01	n available									



Page 13 of 16

NM-OT-X** Down endocrine disrupting adverse effects werse effects are expected isposal considerations e treatment methods uct/Packaging disposal: init for disposal to the legal considerations.		21 Dec 2022 ne environment.	Version:	4		
adverse effects verse effects are expected isposal considerations e treatment methods uct/Packaging disposal: nit for disposal to the lega		ne environment.				
isposal considerations e treatment methods uct/Packaging disposal: nit for disposal to the lega	I.					
isposal considerations e treatment methods uct/Packaging disposal: nit for disposal to the lega	I.					
e treatment methods uct/Packaging disposal: nit for disposal to the lega						
uct/Packaging disposal: nit for disposal to the lega						
nit for disposal to the lega						
ection.	al person authorized by t	he Ministry of Enviror	nmental and Natu	re		
e codes/waste designatio	ns according to Law:					
formation available						
e treatment – relevant inf	formation:					
formation available						
ge disposal – relevant info	ormation:					
e must not be disposed o	of into the sewage systen	n.				
r disposal recommendatio	ons:					
Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.						
ant Community provision	ns:					
n to	er disposal recommendation of the product orized by the ministry in coackaging to the collectors ion may occur.	age disposal – relevant information: te must not be disposed of into the sewage system er disposal recommendations: not dispose of the product's remains into the sewage orized by the ministry in charge. Do not dispose or	age disposal – relevant information: te must not be disposed of into the sewage system. er disposal recommendations: not dispose of the product's remains into the sewage system. Submit the orized by the ministry in charge. Do not dispose of the packaging into to backaging to the collectors authorized by the ministry in charge. Do not ion may occur.	age disposal – relevant information: te must not be disposed of into the sewage system. er disposal recommendations: not dispose of the product's remains into the sewage system. Submit the remains to the corized by the ministry in charge. Do not dispose of the packaging into the sewage system backaging to the collectors authorized by the ministry in charge. Do not dispose of in place ion may occur.		

SECTION 14. Transport information				
Transporting/shipment b	y road (ADR)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			



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

Page 14 of 16

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

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

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



Page 15 of 16

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

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

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



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

Page 16 of 16

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

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

ANNEX: Exposure scenario resulting to Chemical safety assessment