

## HEMATOXYLIN P.T.A. KIT

The kit contains:

Hematoxylin P.T.A.

Oxalic acid, 1% solution

Potassium permanganate, 0.5% solution

Sulfuric acid, 0.5% solution



### **SAFETY DATA SHEET**

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

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Trading name:	HEMATOXYLIN P.T.A.			
Product code:	HPTA-OT-X**	Date of compilation: 14 November 2022	Version: 4	

SECTI	ON 1: Identification of	the substanc	e/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	HEMATOX	HEMATOXYLIN P.T.A.		
	Chemical name:	-			
	Catalogue number:	HPTA-OT->	<b>(</b> **		
1.2.	Relevant identified us	es of the subs	tance or mi	xture and uses advised against	
	Uses:		For stainir	ng tissue structures.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagred against:  device, registered at the Agency for Medicinal Products Devices and there is no reason to use it for other purpo		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:	Bi	BioGnost Ltd.		
	Address:	M	Medjugorska 59, Zagreb		
	Telephone number:	+	385 1 24099	997	
	Fax no.:	+	+385 1 2404039 :: <u>msds@biognost.hr</u>		
	e-mail of competent p	oerson: <u>m</u>			
	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	ON 2. Hazards identification			
2.1.	Classification of the substance or mixture			
2.1.1.	Classification according to Regul	ation (EC) No 12	272/2008 (CLP)	
	Hazard class and categor	y code:	Hazard statements*:	
	Not identified as hazardous subs	stance.	-	
2.1.2.	Additional information			
	-			
*For fu	ll text of Hazard- and EU Hazard-st	tatements: see S	ection 16	
2.2.	Label elements			
	Product identification:	HEMATOXYLI	N P.T.A.	
	Identification number: -			
	Authorization no.: -			
	Hazard pictograms:	-		



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	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	<b>Endocrine Disrupting Properties:</b>	
	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)			
_	-	-	Contains no hazardous substances	-			

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



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

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

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne				
	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.				



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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	-			
6.4.	Reference to other sections				
	See Section 7 for information about secure handling.  See Section 8 for information about personal protective equipment.  See Section 13 for information 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.	<ul><li>2. Advice on general occupational hygiene:</li><li>Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.</li></ul>					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	ventil	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:	Manu	ufacturer's original packaging.			
	Requirements for storage rooms and vessels:	•	Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment: be dir		The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions: and che		ot place the unused material in the storage room do not use empty containers for storing other sicals. Do not store with incompatible materials (see on 9).			
7.3.	Specific end use(s)					



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				1			
Recommen	dations:			-			
Industrial s	ector spe	cific solution	s:	-			
SECTION 8. Exposu	re contr	ols/persona	l protec	tion			
8.1. Control par	rameters						
Substance		CAS N	lo	Occupational values/short		Biolo	ogical limit values
				ppm	mg/m³	-	J
-		-		-	-	No inform	nation available
		L				I	
Substance - name:							
EC No: -		CAS No:	-				
DNEL							
				Industrial			
Route of exposure:	A	Acute		Acute	Chron	ic	Chronic
Noute of exposure.	effe	ect local	effe	ect systemic	effect lo	ocal	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
Critical physical para	ameters: s	solubility, flar	nmabili <sup>.</sup>	ty, corrosivity:	-		
				Consumer	1		
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chron effect lo		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



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Air			No information available			
8.2.	Exposure controls					
8.2.1.	Appropriate engineering controls					
0.2.1.	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 preexposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equi	oment				
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection					
8.2.2.2.			tective gloves must be according to the EU Directive 2016/425/EEC and indard EN 374.  Glove material: nitrile rubber  Glove thickness: ≥0.50 mm  Break through time: >480 min			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long es (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a for organic vapors, type "A" (boiling point >65°C) acording to EN 7) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	formation available			
8.2.3.	Environmental exposure	controls				
	Substance/mixture relate measures to prevent exp		See Section 6			
	Structural measures to preexposure:	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			

## **SECTION 9. Physical and chemical properties**



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	Value	Method
Physical state:	liquid	No information available
Color:	violet	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:	1.5 – 2.0	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**



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Acute toxici	ty:					
Route of exposure:	Method	Species	Effective Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time		Results
Oral exposure:	No information available	-	LD <sub>50</sub>	-		-
Dermal exposure:	No information available	-	LD <sub>50</sub>	_		_
Inhalation exposure:	No information available	-	LC <sub>50</sub>	_		-
Specific targ	get organ toxicity – si	ngle exposure (	STOT SE):			
	Specif	ic effects	Target	organ		Note
Oral exposure:	No information	available	No information	on available	_	
Dermal exposure:	No information	available	No information available -			
Inhalation exposure:	No information	available	No information available -			
Aspiration h	nazard:  d corrosion:	No info	rmation available			
mitation un	Exposure time	Species	Evaluation	Method		Note
Skin irritation:	-	-	-			-11010
Eye irritation:	_	_	-			
Sensitization	n					
Dermal exposure:	No information avail	able				
Inhalation exposure:	No information avail	able				
Symptoms i	related to the physica	l, chemical and	toxicological chara	cteristics		
Oral exposure:	sensation; higher	levels of concer g, aspiration ca	of mucosa, tingling ntration may cause uses coughing, diffition.	nausea, abdor	ninal pa	in and vomitin
Dermal exposure:	: -	•	ure, resorption effe		ely. Long	g-term exposu



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innalation exposite:			halation of large amounts of vapors in inadequately ventilated perimeter may cause bughing, sneezing, headache and nausea.						
Eye exposure: Direct eye co			ontact may cause slight to moderate irritation, lacrimation and burning						
Reneate	nd dos	e toxicity (sub	acute, subchro	onic chroni	c)				
Керейс		Dose Dose	Exposure time	Species	<u>C)</u>	Method	Evaluation	Note	
Subacute oral	No avail	information able	No information available	No informati available	on	No information available	No informatio available	on -	
Subacute dermal	No avail	information able	No information available	No informati available	on	No information available	No informatio available	n -	
Subacute inhalation	No avail	information able	No information available	No informati available	on	No information available	No informatic available	n -	
Subchronic oral	No avail	information able	No information available	No informati available	on	No information available	No informatic available	on -	
Subchronic dermal	No avail	information able	No information available	No informati available	on	No information available	No informatio available	n -	
Subchronic inhalation	No avail	information able	No information available	No informati available	on	No information available	No informatic available	on -	
Chronic oral	No avail	information able	No information available	No informati available	on	No information available	No informatic available	on -	
Chronic dermal	No avail	information able	No information available	No informati available	on	No information available	No informatio available	n -	
Chronic inhalation	No information available		No information available	No informati available	on	No information available	No informatic available	on -	
C: £ -	+0***	organ tanksis			TOT 10				
Specific	target	1	y – repeated e pecific effects	xposure (S	IOIK		an	Note	
Subacute oral			tion available		Target organ  No information available		- Note		
Subacute dermal			tion available			nformation avai		-	
Subacute inhalat			tion available			nformation avai		_	



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					<u>Y</u>		
Subchr			n available	No information available	-		
Subchr	onic dermal	No informatio	n available	No information available	-		
Subchr	onic inhalation	No informatio	n available	No information available	-		
Chronic	c oral	No informatio	n available	No information available	-		
Chronic	c dermal	No informatio	n available	No information available	-		
Chronic	inhalation	No informatio	n available	No information available	-		
	CMR effects (c	arcinogenicity; n	nutagenicity; repro	oductive toxicity)			
	Carcinogenicit	y:	Current studies on test animals did not indicate carcinogenic effects.				
	Mutagenicity i	n-vitro:	Current in vitro tests did not indicate mutagenic effects.				
	Genotoxicity:		No information available				
	Mutagenicity i	n-vivo:	Current in vivo tests did not indicate mutagenic effects.				
	Germ cell muta	agenicity:	No information available				
	Reproductive t	coxicity:	No toxicity on reproductive organs was determined in reproductive organs.				
	Summary of ev	valuation of the	CMR properties:	-			
11.2.	Information or	n other hazards:					
11.2.1.	Endocrine disr	upting propertie	es:				
	No known end	locrine disruptin	g properties that a	affect human health.			
11.2.2.	Other informat	tion:					

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



Soil

No information available

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Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	_	-	-	-	-	-

12.2. P	ersistence and degradability	stence and degradability									
Δ	Abiotic degradation										
	Degradation half-lives	Method	Evaluation	Note							
Marine water	No information available	No information available	No information available	-							
Fresh wate	er No information available	No information available	No information available	-							
Air	No information available	No information available	No information available	-							

No information available

No information available

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

	accumulative potenti					
Oc	tanol-water partition	coefficien	t (log Ko	ow)		
Value	Concentration	рН	°C	Method	Evaluation	Note
_	No information available	-	-	No information available	No information available	-
Bio	oconcentration factor	(BCF)				
Value	Spec	ies		Method	Evaluation	Note



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

Chronic ecotoxicity									
Value	Dose	Exposure time	Species	Method	Evaluation	Note			
Chronic toxicity on fish	LC <sub>50</sub>	No information available	No information available	No information available	No information available	-			
Chronic toxicity on crustacea ( <i>Daphnia</i> )	EC <sub>50</sub>	No information available	No information available	No information available	No information available	-			

12.4.	Mobility in soil
	Known or predicted distribution in environmental compartments:

No information available

#### Surface tension:

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

#### Adsorption / desorption

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

#### 12.5. Results of PBT and vPvB assessment

No information available



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12.6.	Endocrine disrupting properties				
	No known endocrine disrupting properties that affect the environment.				
12.7.	Other adverse effects				
	No adverse effects are expected.				
SECTION	N 13. Disposal considerations				
13.1.	Waste treatment methods				
13.1.1.	Product/Packaging disposal:				
	Submit for disposal to the legal Protection.	person authorized by the Ministry of Environmental and Nature			
	:				
13.1.2.	Waste codes/waste designation	s according to Law:			
	No information available				
13.1.3.	Waste treatment – relevant info	rmation:			
	No information available				
13.1.4.	Sewage disposal – relevant info	rmation:			
	Waste must not be disposed of into the sewage system.				
13.1.5.	Other disposal recommendation	ns:			
	authorized by the ministry in ch	remains into the sewage system. Submit the remains to the collectors arge. Do not dispose of the packaging into the sewage system. Submit authorized by the ministry in charge. Do not dispose of in places where			
13.1.6.	Relevant Community provisions				
	-				
SECTION	N 14. Transport information				
	Transporting/shipment by road (A	ADR)			
UN num	ber:	Not subject to transport regulations.			
UN prop	per shipping name:	-			
Transpoi	rt hazard class(es):	-			



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Packing group:		-				
Environmentally haz						
Special precautions		-				
<u> </u>	ng/shipment by rail					
UN number:		Not subject to transport	regulations.			
UN proper shipping	ı name:	-				
Transport hazard cla	ass(es):	-				
Packing group:		-				
Environmentally haz	zardous:	-				
Special precautions	for user:	-				
Inland wate	erway transport (AD	N)				
UN number:		Not subject to transport	regulations.			
UN proper shipping name:		-				
Transport hazard class(es):		-				
Packing group:		-				
Environmentally haz	zardous:	-				
Special precautions	for user:	-				
Transportir	ng/shipment by sea	(IMDG)				
UN number:		Not subject to transport	regulations.			
UN proper shipping	ı name:	-				
Transport hazard cla	ass(es):	-				
Packing group:		-				
Environmentally haz	zardous:	-				
Special precautions	for user:	-				
Transportir	ng/shipment by air (	(ICAO-TI/IATA-DGR)				
UN number:		Not subject to transport	regulations.			
UN proper shipping	ı name:					
Transport hazard cla						
Packing group:		-				
Environmentally hazardous:						
<i>,</i> -	for user:	_				



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15.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	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:	-			
		PBT	Stable, bioaccumulative and toxic		
		vPvB	Strongly stable and strongly bioaccumulative.		
16.2.	Abbreviations and acronyms:	LD <sub>50</sub>	Lethal dose, 50%		
		LC <sub>50</sub>	Lethal concentration, 50%		
		STOT-SE	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	_			



#### **SAFETY DATA SHEET**

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

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Trading name:	HEMATOXYLIN P.T.A.				
Product code:	HPTA-OT-X**	Date of compilation: 14 November 2022	Version: 4		

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

## ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trading name:	OXALIC ACID, 1% SOLUTION						
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

SECTI	ION 1: Identification of	the substance	e/mixture	e and of the company/undertaking	
1.1	Product identifier				
	Trading name:	OXALIC AC	ID, 1% SO	LUTION	
	Chemical name:	-			
	Catalogue number:	OKS1-OT-X	<b>*</b> **		
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:	Supplier:		BioGnost Ltd.	
	Address:		Medjug	orska 59, Zagreb	
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	person:	msds@biognost.hr		
	National contact:	National contact:		-	
1.4	Emergency telephone	number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to F	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and cat	egory code:	Hazard statements*:			
	Not identified as hazardous	substance.	-			
2.1.2.	Additional information					
	-					
*For fu	ıll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16			
2.2	Label elements					
	Product identification:	OXALIC ACID, 1	% SOLUTION			
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	-				



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Trading name:		OXALIC ACID, 1% S			
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	<b>Endocrine Disrupting Prope</b>	rties:
	No known endocrine disruptir	ng properties
	<b>Results of PBT and vPvB ass</b> PBT or a vPvB.	<b>essment</b> : According to the results of its assessment, this substance is not a

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)
-	-	_	Contains no hazardous substances	-

SECTI	TION 4. First aid measures				
4.1	Description of first aid measures	Description of first aid measures			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.			
	Self-protection of the first aider:	-			
4.2	Most important symptoms and ef	fects, both acute and delayed			
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			



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Trading name:		OXALIC ACID, 1% SOLUTION			
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
4.3	Indication of any immediate	medical attention and special treatment needed
	-	

SECTI	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	water spray, dry powder, CO <sub>2</sub> or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2	Special hazards arising from the su	ubstance or mixture			
	Hazardous combustion products:	no information available			
5.3	Advice for firefighters	Advice for firefighters			
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.			

SECTIO	SECTION 6. Accidental release measures					
6.1	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in case of inadequate ventilation use adequate airways protective ec (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 protective barrier or barriers made of similar materials.				



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Trading name:		OXALIC ACID, 1% S	OXALIC ACID, 1% SOLUTION		
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

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



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

1	'								
SECTION 8. Expos	ure contr	ols/perso	nal pr	otect	tion				
8.1 Control pa									
Substance		CA				ccupational exposure limit values/			Biological limit values
					p	pm	mg/m³		
-			-			-	-	-	
Substance name:	-								
EC No:	-	CAS No	:	-					
DNEL									
					Indu	ustrial			
Route of	Acı	ute		Acut	e		Chronic		Chronic
exposure:	effect	local	effe	ct sys	temic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
Critical physical pa	rameters: s	solubility,	flamm	abilit	y, corro	osivity:	-		
					Cons	sumer			
Route of	A	cute		Acut	:e		Chronic		Chronic
exposure:	effec	ct local	effe	ct sys	stemic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			_			-
Dermal			-						-
PNEC	PNEC								
Environmental protection target			F	PNEC					
Fresh water					r	no information available			
Freshwater sedime	nts				r	no information available			
Marine water					r	no information available			
Marine sediments				r	no information available				



Food chain

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Trading name:		OXALIC ACID, 1% S	OLUTION		
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no information available

1000 01101	oda cham		The information available
Microorga	anisms in sewage treatment		no information available
Soil (agric	cultural)		no information available
Air			no information available
8.2	Exposure controls		
8.2.1.	Appropriate engineering controls	s	
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:		In accordance with Section 7.
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.
8.2.2.	Personal protection equipment		
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lowe levels of concentration in air; protective gas mask that covers th entire face in case of higher levels of concentration in air.	
8.2.2.2.	Skin protection	<u>i</u>	
	Hand protection:		otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min
	Other skin protection:	footwe entire imperr	p everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed G	
8.2.2.4.	Thermal hazards:	No info	ormation available
8.2.3.	Environmental exposure controls	,	
	Substance/mixture related measures to prevent exposure:	See Se	ction 6



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Trading name:		OXALIC ACID, 1% S	SOLUTION		
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

Information on basi	c physical and o	chemical properties	
		Value	Method
Physical state:		liquid	No information available
Colour:		purple brown	No information available
Odour/odour thresh	nold:	characteristic/no information available	No information available
Melting point / free	zing point:	No information available	No information available
Boiling point or initi	-	No information available	No information available
Flammability:		No information available	No information available
Lower and upper ex	plosion limit:	No information available	No information available
Flash point:		No information available	No information available
Auto-ignition tempe	erature:	No information available	No information available
Decomposition tem	perature:	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 octanol/water (log v		No information available	No information available
Vapour pressure:		No information available	No information available
Density and/or relat	ive density:	No information available	No information available
Relative vapour den	sity:	No information available	No information available
Particle characterist	ics:	No information available	No information available
Other information			

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



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10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No 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

	oxicological informat							
	ation on hazard classes	as defined in	n Regulati	on (EC) No 1272/20	800			
Acute 1	toxicity:	:			1			
Route of exposure:	Method	Species	Effect	ive Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure	re time Results		
Oral:	No information available	-	No info	ormation available	-		-	
Dermal:	No information available	_	No information available -		-		_	
Inhalation:	No information available	_	No info	ormation available	-	-		
:								
Specifi	c target organ toxicity -	- single expo	sure (STO	T SE):				
	Specific	effects		Target organ			Note	
Oral:	No information a	vailable	N	o information avail	able	-		
Dermal:	No information a	vailable	N	o information avail	able	-		
Inhalation:	No information a	vailable	No information available -					
Aspirat	tion hazard:	No	o informa	tion available.				
<u> </u>		<u> </u>						
Irritatio	on and corrosion							
	Exposure	time	Species	Evaluation	Method		Note	
Skin corrosion/irritat	ion:	-		-	<b>–</b>	-		
Serious eye		-		-	-	-		
C								
Sensiti	1		- 1- 1 -					
Skin sensitizatio		mation availa						
Respiratory sens	sitization: No infor	mation availa	able.					



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Trading name:	OXALIC ACID, 1% SOLUTION							
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	ms related to the p	hysical, chemic	al and toxicolog	gical characterist	ics				
Oral exposure:	No informa	tion available.							
Dermal exposure	e: No informa	ation available.							
Inhalation expos	ure: No informa	tion available.							
Eye exposure:	No informa	tion available.							
	·								
Repeate	ed dose toxicity (su	bacute, subchro	onic, chronic)						
	Dose	Exposure time	Species	Method	Evaluation	Note			
Subacute oral	No information available	No information available	No information available	No information available	No information available	_			
Subacute dermal	No information available	No information available	No 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	<b>–</b>			
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	<b>-</b>			
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	_			



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Trading name:		OXALIC ACID, 1% SOLUTION							
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Subacute oral	No information available		No information available	-			
Subacute dermal	No information available		No information available	-			
Subacute inhalation	No information available	No information available		-			
Subchronic oral	No information available		No information available	-			
Subchronic dermal	No information available		No information available	-			
Subchronic inhalation	No information available		No information available	-			
Chronic oral	No information available		No information available	-			
Chronic dermal	No information available		No information available	_			
Chronic inhalation	No information available		No information available	-			
CMR effects (d	carcinogenicity; mutagenicity	y; repr	oductive toxicity)				
Carcinogenici	ty:	Based	d on available data, the classification cr	riteria are not met.			
Mutagenicity	in vitro:	Based	d on available data, the classification cr	riteria are not met.			
Genotoxicity:		Based on available data, the classification criteria are not met.					
Mutagenicity	in vivo:	Based	d on available data, the classification cr	riteria are not met.			
Germ cell mut	tagenicity:	Based	d on available data, the classification cr	riteria are not met.			
Reproductive	toxicity:	Based	d on available data, the classification cr	riteria are not met.			
Summary of properties:	evaluation of the CN		based on available data, the classificannet.	tion criteria are not			
:							
11.2 Information o	n other hazards:						
11.2.1. Endocrine disi	rupting properties:						
components of disrupting pro Article 57(f) regulation (EU	ce/mixture does not contactonsidered to have endocricoperties according to REACTORY OF Commission Delegated 2017/2100 or Commission Delegated 2018/605 at levels of 0.1%	ne CH ed on					
11.2.2. Other informa	ation:						
-							

SECTION 12. Ecological information								
12.1 Toxicity								
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		



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Trading name:		OXALIC ACID, 1% SOLUTION							
Product code:	OKS1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4				

Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Fish Crustacea:	LC <sub>50</sub>	96 hours 48 hours		information	information	-
			available  No information	information available No information	information available No information	-

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	-

			ion

= 10 0.0 9.0 0.0	****			
% Degradation	Time (days)	Method	Evaluation	Note
No information available				



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Trading	g name:				0	XALIC AC	ID,	1% SOLUTIO	N	······································		
Produc	ct code:	OKS1	-OT-X**	:	Date	of compi	latio	on: 21 De	c 2022		Version:	4
12.3	Bioaccum	ulative p	otential									
	Octanol-w	ater par	tition co	efficient (	log Kow	)						
Valu	e Co	ncentrat	ion	рН	°C	Metho	d	Evalu	ation		Note	
-	-		-	-	-	_		-		-		
	Bioconcen	tration f	actor (Bo	CF)								
V	Value Species				N	Method		Evaluati	on		Note	
No info	o information No information		No info	ormation		No informati	on					
availabl	vailable available		availab	le		available		-				
	Chronic ed	cotoxicit	у			-						
	Value		Dose		osure	Shacias IVI		Method	Evaluation		Note	e
					time			NIa	No			
Chronic	toxicity on	fish	LC <sub>50</sub>	No infor	mation	No informati	on	No information	information		_	
			- 50	avail		available		available	availab			
Chronic	toxicity on			No		No		No	No			
	ea ( <i>Daphnia</i>	·)	EC <sub>50</sub>		mation	informati	on	information	informa		-	
				avail	abie	available		available	availab	ie		
12.4	NA = le 11th . 1	: !										
12.4	Mobility in		1 1									
	-			oution in e	environm	nental comp	oartı	ments:				
	No inform		allable									
	Surface te	nsion:										
	Value		°C	С	oncentra	ntion		Method			Note	
	No informatio available		ormatior ailable	<b>1</b>	informa iilable		info ailab	ormation ble	-			
		<del>-</del>		<del>i</del>		<del>-</del>			<u>+</u>			



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-	A /D coefficient					
Transport	A/D coefficient t Henry's constant	log Kow	Evaporation rate	No information available	Note -	
Soil-wate	No information available	No information available	No information available			
Water-air	No information available	No information available	No information available	No information available	-	
Soil-air	No information available	No information available	No information available	No information available	-	
	Results of PBT and vPvB asses					
ć	The substance/mixture does i according to REACH Article 5 Regulation (EU) 2018/605 at I	7(f) or Commission	n Delegated regulation (			
12.6. I	Endocrine disrupting properti	ies				
6	The substance/mixture does i according to REACH Article 5 Regulation (EU) 2018/605 at I	7(f) or Commission	n Delegated regulation (			
12.7	Other adverse effects					
	No further relevant information	on available.				
SECTION	I 13. Disposal consideration	S				
13.1	Waste treatment methods					
13.1.1.	Product/Packaging disposa	l:				
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.					
13.1.2.	Waste codes/waste designa	ations according to	) Law:			
	15 01 10*: Packaging that c substances	ontains residual ha	azardous substances or	is contaminated	l with hazardous	
13.1.3.	Waste treatment – relevant	information:				



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Trading name:	OXALIC ACID, 1% SOLUTION					
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	No information available					
13.1.4.	Sewage disposal – relevan	nt information:				
		sed of into the sewage system.				
	· · · · · · · · · · · · · · · · · · ·	are considered and co				
13.1.5.	Other disposal recommen	dations:				
	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. Subm the packaging to the collectors authorized by the ministry in charge.					
13.1.6.	Relevant Community prov	visions:				
	Disposal must be made ac	ccording to official regulations.				
SECTIO	N 14. Transport informatio	n				
	Transporting/shipment by re	oad (ADR)				
UN num	ber:	Not subject to transport regulations				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environ	mentally hazardous:	-				
Special	orecautions for user:	-				
	Transporting/shipment by ra	ail (RID)				
UN num	ber:	Not subject to transport regulations				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environ	mentally hazardous:	-				
Special	precautions for user:	-				
	Inland waterway transport (	ADN)				
UN num	ıber:	Not subject to transport regulations				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environi	mentally hazardous:	-				
Special	orecautions for user:	-				
	Transporting/shipment by s	ea (IMDG)				
UN num	nber:	Not subject to transport regulations				



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Trading name:	OXALIC ACID, 1% SOLUTION					
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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 (ICA	Transporting/shipment by air (ICAO-TI/IATA-DGR)		
UN number:	Not subject to transport regulations		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmentally hazardous:	-		
Special precautions for user:	-		
Further information: -			

SECTI	ON 15. Regulatory informa	ation				
15.1	Safety, health and environmental 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);				



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Trading name:	OXALIC ACID, 1% SOLUTION				
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	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 assessment				
	None				

SECTIO	ON 16. Other information		
16.1	Indication of changes:	-	
16.2	Abbreviations and acronyms	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  IMDG: International Maritime Code for Dangerous Goods  IATA: International Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals  EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent  PBT: Persistent, Bioaccumulative and Toxic  vPvB: very Persistent and very Bioaccumulative	
16.3.	Key literature references and source of data:		
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)	
Classif	ication	Classification procedure	
-		-	
16.5.	Relevant H statements (num	ber and full text)	
	H: 315 319 335	Causes skin irritation Causes serious eye irritation. May cause respiratory irritation.	
16.6.	Training advice:	-	
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	



### **SAFETY DATA SHEET**

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

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Trading name:	OXALIC ACID, 1% SOLUTION					
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ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



## SAFETY DATA SHEET

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

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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

SECTI	ON 1: Identification of	the substa	nce/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Trading name:	name: POTASS		IUM PERMANGANATE, 0.5% SOLUTION		
	Chemical name:	-				
	Catalogue number:	KP05-07	KP05-OT-X**			
1.2.	Relevant identified uses of the substance or mixture and uses advised against			xture and uses advised against		
	Uses:		For use with	special staining kits.		
	Uses advised against:		Only the ider	ntified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent person:		msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone number					
	National Protection and Rescue		Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regu	lation (EC) No 1	272/2008 (CLP)		
	Hazard class and catego	ry code:	Hazard statements*:		
	Aquatic Chronic 3		H412		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-s	statements: see S	ection 16		
2.2.	Label elements				
	Product identification:	POTASSIUM	PERMANGANATE, 0.5% SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
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	Signal word:	-				
	Hazard statements:	H412 Harmful to aquatic life with long lasting effects.				
	Precautionary statements:	P273 Avoid release to the environment P501 Dispose of contents/container in accordance with local regulations.				
	Further information:	-				
2.3.	Other hazards					
	Endocrine Disrupting Properties:					
	No known endocrine disrupting properties					
	<b>Results of PBT and vPvB assessment</b> : 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)	
7722-64-7/ 231-760-3/ 025-002-00-9	-	0.5 %	potassium permanganate	Oxid. Solid 2; H272 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	

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

## **SECTION 5 Firefighting measures**



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION					
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

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

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



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
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See Section 7 for information about secure handling.

See Section 8 for information about personal protective equipment.

See Section 13 for information about containment.

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

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



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

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Trading nam	ne:		P	OTAS	SSIUM	PERMAN	GAN	ATE, 0.	5% SOLU	ΓΙΟΝ
Product cod	le:	KP05-O	T-X**		Date o	f compila	tion:	21 De	ec 2022	Version: 6
			Τ			1			T	
Potassium pe	rmang	anate	7722-6	54-7		-		5	No infor	mation available
Substance										
name:	-									
EC No:	-		CAS No:	-						
DNEL			•							
					Inc	dustrial				
Route of		A	Acute		Acut	e		Chro	nic	Chronic
exposure:		effe	ect local	е	ffect sys	temic		effect	local	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
Critical physic	cal para	ameters: s	solubility, fla	mmab	ility, cor	rosivity:		-		
				ı	Co	nsumer	ı			
Route of			Acute		Acut			Chro		Chronic
exposure:		effe	ect local	е	ffect sys	temic		effect	local	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC										
Environmenta	al prote	ection tar	get			PNEC		•1.1		
Fresh water						No inforr				
Freshwater se		ts				No inform				
Marine water						No inform				
Marine sedim	ients					No inform				
Food chain	me in e		ootmont.			No inforr				
Microorganis		sewage tr	eatment							
Soil (agricultu	ıraı)				No information available  No information available					
All						NO IIIIOII	Hatioi	i avaiiau	ie .	
8.2. I	Exposu	re contro	ls							
8.2.1.	Appropriate engineering controls									
	measures to prevent exposure							Jse personal protective		
i i		identified	•		equipm	ent. Do no	ot eat,	drink or	smoke in t	he workspace.
	Structu exposu		ires to preve	ent	No info	rmation av	/ailable	e		
exposure.										



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION					
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	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prexposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equi	pment				
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection					
			tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374.			
	Hand protection:	Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN ) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	ormation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture 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.			
	Technical measures to prexposure:	event	See Section 6			

SECTI	SECTION 9. Physical and chemical properties					
9.1.	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	dark purple	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			



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION					
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

	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
9.2.	Other information		
	-		

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

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



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Product code:   KP05-OT-X**   Date of compilation:   21 Dec 2022   Version:   6	Trading name:		POTASSIUM PERMANGANATE, 0.5% SOLUTION							
exposure: available	Product code:	KP	05-OT-X** Date of			compilatio	n: 21 De	ec 2022	Version	: 6
exposure: available										
Specific effects Target organ Note  Oral exposure: No information available No information available - Dermal exposure: No information available No information available - Inhalation exposure: No information available No information available - Inhalation exposure: No information available No information available -  Respiratory irritation: No information available  Irritation and corrosion  Exposure time Species Evaluation Method Note  Skin irritation:  Eye irritation:  Sensitization  Dermal exposure: No information available Inhalation exposure: No information available  Symptoms related to the physical, chemical and toxicological characteristics  Oral exposure: No information available  Dermal exposure: No information available  Repeated dose toxicity (subacute, subchronic, chronic)  Exposure: Species Method Evaluation Note  Subacute oral No information available available information information information available available available available information available				on	-	LC	- 50	-		-
Specific effects Target organ Note  Oral exposure: No information available No information available - Dermal exposure: No information available No information available - Inhalation exposure: No information available No information available - Inhalation exposure: No information available No information available -  Respiratory irritation: No information available  Irritation and corrosion  Exposure time Species Evaluation Method Note  Skin irritation:  Eye irritation:  Sensitization  Dermal exposure: No information available Inhalation exposure: No information available  Symptoms related to the physical, chemical and toxicological characteristics  Oral exposure: No information available  Dermal exposure: No information available  Repeated dose toxicity (subacute, subchronic, chronic)  Exposure: Species Method Evaluation Note  Subacute oral No information available available information information information available available available available information available										
Oral exposure: No information available No information available - Dermal exposure: No information available No information available - Inhalation exposure: No information available No information available - No information available - No information available - No i	Specific	target	organ toxicit	y – single exp	osure (	STOT SE):				
Dermal exposure:   No information available   No information available   -	Specific effects Target organ									ote
Inhalation exposure: No information available No information available  Respiratory irritation: No information available  Irritation and corrosion  Exposure time Species Evaluation Method Note  Skin irritation:	Oral exposure:		No informa	ation available	e [	No informa	tion availal	ole	-	
Respiratory irritation:   No information available	Dermal exposure	:	No informa	ation available	e	No informa	tion availal	ole	-	
Irritation and corrosion   Exposure time   Species   Evaluation   Method   Note	Inhalation expos	ure:	No informa	ation available	9	No informa	tion availal	ole	-	
Irritation and corrosion   Exposure time   Species   Evaluation   Method   Note										
Exposure time   Species   Evaluation   Method   Note	Respirat	tory irri	tation:		No info	mation avai	lable			
Exposure time   Species   Evaluation   Method   Note										
Skin irritation:  Eye irritation:  Sensitization  Dermal exposure:  No information available  Inhalation exposure:  No information available  Symptoms related to the physical, chemical and toxicological characteristics  Oral exposure:  No information available  Inhalation exposure:  No information available  No information available  Repeated dose toxicity (subacute, subchronic, chronic)  Repeated dose toxicity (subacute, subchronic, chronic)  Repeated dose toxicity (subacute, subchronic, chronic)  No information available  Subacute oral  No information available	Irritation	n and c	orrosion							
Sensitization  Dermal exposure: No information available Inhalation exposure: No information available  Symptoms related to the physical, chemical and toxicological characteristics  Oral exposure: No information available  Dermal exposure: No information available Inhalation exposure: No information available Inhalation exposure: No information available  Repeated dose toxicity (subacute, subchronic, chronic)  Repeated dose toxicity (subacute, subchronic, chronic)  Subacute oral No information available available available available on information available available available available on information information available available on information information available available on information information available on available on information available on available on information information available on information available on information available on information information available on information available			Exposure tim	ie Spe	cies	Evalua	ation	Method	N	ote
Sensitization	Skin irritation:	-		-		-		-	-	
Dermal exposure:    No information available	Eye irritation:	-		-		-		-	-	
Dermal exposure:    No information available										
Inhalation exposure:    Symptoms related to the physical, chemical and toxicological characteristics   Oral exposure: No information available	Sensitiza	ation								
Symptoms related to the physical, chemical and toxicological characteristics  Oral exposure: No information available  Dermal exposure: No information available  Inhalation exposure: No information available  Inhalation exposure: No information available  Repeated dose toxicity (subacute, subchronic, chronic)  Repeated dose toxicity (subacute, subchronic, chronic)  Subacute oral No information available No information available no information available No information available no information information information available no information information information information available no information information information available no information information information information information information available no information information information available no information informat	Dermal exposure	: No	information	available						
Symptoms related to the physical, chemical and toxicological characteristics  Oral exposure: No information available  Dermal exposure: No information available  Inhalation exposure: No information available  Repeated dose toxicity (subacute, subchronic, chronic)  Repeated dose toxicity (subacute, subchronic, chronic)  Subacute oral No information available no information information information information available no information information information information available no information information information information information information information available no information information information information information information information available no information informa		No	information	available						
Oral exposure: No information available  Dermal exposure: No information available  Inhalation exposure: No information available  Eye exposure: No information available  Repeated dose toxicity (subacute, subchronic, chronic)  Dose Exposure time Species Method Evaluation Note  Subacute oral No information available information available no available no information available available available available no information information information available available available no information informa	схрозите.									
Oral exposure: No information available  Dermal exposure: No information available  Inhalation exposure: No information available  Eye exposure: No information available  Repeated dose toxicity (subacute, subchronic, chronic)  Dose Exposure time Species Method Evaluation Note  Subacute oral No information available information available no available no information available available available available no information information information available available available no information informa	Sympto	ms rela	nted to the pl	nvsical, chemi	ical and	toxicologica	al character	istics		
Dermal exposure:  Inhalation exposure:  No information available  Eye exposure:  No information available  Repeated dose toxicity (subacute, subchronic, chronic)  Dose Exposure time Species Method Evaluation Note  Subacute oral No information available no available no available no information no information available no			•							
Inhalation exposure:  Eye exposure:  No information available  Repeated dose toxicity (subacute, subchronic, chronic)  Dose  Exposure time  Subacute oral  No information available  No information information information available  No information available  No information information information available  No information information information available										
Repeated dose toxicity (subacute, subchronic, chronic)	Inhalation		information	available						
Repeated dose toxicity (subacute, subchronic, chronic)  Dose Exposure time Species Method Evaluation Note  No information available No information information information information information information information available No information information information information information information available		No	information	available						
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 oral  No information available  No information information information information available  No information information information available  No information information information available	Repeate	ed dose	toxicity (sub	acute, subch	ronic, ch	nronic)				
Subacute oral  No information available  No information information information information available  No information information information available  No information information information available	, ,		Dose	•	Spec	ies I	Method	Evaluation	No	ote
Subacute No information information information information available	Subacute oral			No information	infor	mation i	nformatio		ation -	
				information	infor	mation i	nformatio		ation _	



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Trading name:	POTA	ASSIUM PERMANGANA	ATE, 0.5% SOLUTIO	)N	
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

Subacute inhalation	No information available	No information available	No information available	No informatio n available	No inform	ation _
Subchronic oral	No information available	No information available	No information available	No informatio n available	No inform	ation _
Subchronic dermal	No information available	No information available	No information available	No informatio n available	No inform available	ation _
Subchronic inhalation	No information available	No information available	No information available	No informatio n available	No inform available	ation -
Chronic oral	No information available	No information available	No information available	No informatio n available	No inform available	ation -
Chronic dermal	No information available	No information available	No information available	No informatio n available	No inform	ation _
Chronic inhalation	No information available	No information available	No information available	No informatio n available	No inform	ation _
Specific	target organ toxicit		xposure (STOT		1	,
	Spe	cific effects		Target organ		Note

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

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



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION						
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6		

	Germ cell mutagenicity:	No information available
		No information available
	Summary of evaluation of the CMR	properties: -
44.0		
11.2	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	The substance/mixture does not corcomponents considered to endocrine disrupting proper according to REACH Article 57(f Commission Delegated regulation 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% higher.	have erties f) or (EU) ation
11.2.2.	Other information:	
	-	

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



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Trading nam	ne:	POTASSIUM PERMANGANATE, 0.5% SOLUTION								
Product cod	e:	KP05-OT-X*	*		Date of compile	ation:	21 Dec	2022	Version:	6
Algae/aquation	-	IC <sub>50</sub>	72 ho	ırc	availahla		rmation lable			
Other organis	ms	-	-		_	-		-	-	
		1						1	·	
12.2. Persi	stenc	e and degradal	oility							
Abio	tic de	gradation								
		Degradation ha	f-lives		Method			Evaluatio	n	Note
Marine water	No	information av	ailable	No i	nformation avail	able	No inform	ation ava	ailable	-
Fresh water	No	information av	ailable	No i	nformation avail	able	No inform	ation ava	ailable	-
Air	No	information av	ailable	No i	nformation avail	able	No inform			-
Soil	No	information av	ailable	No i	nformation avail	able	No inform	ation ava	ailable	-
		lation	_							
% Degradation Time (days)		Method			Evaluation		Note			
No information		No infori available	nation						No information available	
12.3. Bioa	ccumi	ulative potentia	<u> </u>							
		oefficient: n-oc								
Value		ncentration	рН	°C	Method		Evalua		No	ote
-	No availa	information able	-	-	No informati available	on	No inform available	ation	-	
Bioco	oncen	ntration factor (	BCF)							
Value		Species	;		Method		Evaluation		No	ote
No information available No information available					No information available		No informa available	ition		
	•								<u> </u>	
Chro	nic ed	cotoxicity								



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Trading name:	РОТА	POTASSIUM PERMANGANATE, 0.5% SOLUTION						
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6			

nformation and ace tension:  'alue	evailable °C	Nc inflava	formation ailable a formation ailable a formation ailable a formation ailable a formation formation ailable a formation formation information information ailable a formation ailable aila	vaila lo nforr vaila ntal c	mation able	No information available No information available ments:	No inforr available No inforr available	mation	- Note
ility in soil wn or predict nformation and accentension: 'alue  mation N	ted distributi available °C	info ava	n environmer  Concentrati  No information	nforr vaila ntal c	ble	information available ments:			- Note
vn or prediction and accepted tension:  'alue  mation  N	°C lo informati		Concentrati No information		comparti				Note
nformation and ace tension:  Value	°C lo informati		Concentrati No information		comparti				Note
race tension:  Yalue  Mation	°C lo informati	ion	No information	on		Method			Note
ralue N	lo informati	ion	No information	on		Method			Note
mation N	lo informati	ion	No information	on		Method			Note
mation		ion	information						
			ion		No information available		-		
orntion / des	corption								
•			1 1/				N4 .1 1		N
Henry's	constant		log Kow		Evapora	ation rate	Method		Note
No i available	information					ation	No informatio available	n -	
No i available	information					ation	No informatio available	n -	
No i available	information					ation	No informatio available	n -	
	A/D coe Henry's o No available No available	No information available  No information available	A/D coefficient Henry's constant  No information available	A/D coefficient Henry's constant  No information available  No information No information available  No information available  No information available  No information No information available	A/D coefficient Henry's constant  No information available  No information No information available  No information available	A/D coefficient Henry's constant  No information available  No information available	A/D coefficient Henry's constant  No information available  No information available	A/D coefficient Henry's constant  No information available  No information available	A/D coefficient Henry's constant  No information available  No information available

Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.6. Endocrine disrupting properties



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POTASSIUM PERMANGANATE, 0.5% SOLUTION				
)5-OT-X**	Date of compilation:	21 Dec 2022	Version: 6	
			-	

	TI   1   1   1   1   1   1   1   1   1	
		components considered to have endocrine disrupting properties mission Delegated regulation (EU) 2017/2100 or Commission % or higher.
•		
12.7.	Other adverse effects	
	No information available	
	ON 13. Disposal considerations	
13.1.	Waste treatment methods	
13.1.1.	. Product/Packaging disposal:	
13.1.1.	3 3 1	authorized by the Ministry of Environmental and Nature
	Protection.	additionized by the Willistry of Environmental and Wattire
13.1.2.	. 3	ding to Law:
	No information available	
13.1.3.	. Waste treatment – relevant information	า:
	No information available	
13.1.4.	. Sewage disposal – relevant information	1:
	Waste must not be disposed of into th	e sewage system.
13.1.5.	. Other disposal recommendations:	
	authorized by the ministry in charge. D	ns into the sewage system. Submit the remains to the collectors to not dispose of the packaging into the sewage system. Submit ized by the ministry in charge. Do not dispose of in places where
13.1.6.	. Relevant Community provisions:	
	-	
SECTIO	ON 14. Transport information	
	Transporting/shipment by road (ADR)	
UN nun		
UN pro	oner shinning name:	nmentally hazardous substance, liquid, n.o.s. (potassium nganate)
Transpo	oort hazard class(es): 9	



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

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Trading name:	РОТА	SSIUM PERMANGANATE, 0.5% SOLUTION				
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

Packing group:	III			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by	rail (RID)			
UN number:	3082			
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)			
Transport hazard class(es):	9			
Packing group:	III			
Environmentally hazardous:	-			
Special precautions for user:	-			
Inland waterway transport	(ADN)			
UN number:	3082			
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)			
Transport hazard class(es):	9			
Packing group:	III			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by	sea (IMDG)			
UN number:	3082			
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)			
Transport hazard class(es):	9			
Packing group:	III .			
Environmentally hazardous:				
Special precautions for user:	-			
Transporting/shipment by	air (ICAO-TI/IATA-DGR)			
UN number:	3082			
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)			
Transport hazard class(es):	9			
Packing group:	III			
Environmentally hazardous:	-			
Special precautions for user:	_			



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Trading name:	Р	OTASSIUM PERMANGANA	// PERMANGANATE, 0.5% SOLUTION			
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

	These substances when carried in single or combination packagings containing a net
Further information:	quantitiy per single or inner packaging of 5 l or less for liquids or having a net mass per
	single or inner packaging of 5 kg or less for solids, are not subject to classification.

SECTIO	ON 15. Regulatory informat	tion
15.1.	Safety, health and environ	mental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or restri	ictions 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 dangerous substances, mixtures and articles (Annex XVII);
	Information according 199 guideline)	9/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessmen	nt
	None	

SECTION 16. Other information	
16.1. Indication of changes:	



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

amended by Regulation (EU) No. 2020/878

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Trading name:	РОТ	ASSIUM PERMANGAN			
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version: 6	5

			ADD: Assessed selectification constitution of the selection of the selecti				
16.2.	Abl	oreviations 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.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)				
Classifi	catio	n	Classification procedure				
-			-				
16.5.	Rel	evant H statements (num	oer and full text)				
		272	May intensify fire; oxidiser.				
		302	Harmful if swallowed.				
	H:	400	Very toxic to aquatic life.				
		410	Very toxic to aquatic life with long lasting effects.				
		413	May cause long lasting harmful effects to aquatic life.				
16.6.	Tra	ining advice:	<u>-</u>				
16.7.	** the Further information: We ins		** "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.				

A	۸	11	V	E	X	į
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**Exposure scenario resulting to Chemical safety assessment** 

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

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Trading name:	SULFURIC ACID, 0.5% SOLUTION				
Product code:	SK05-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTI	ON 1. Identification of	the substa	nce/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	SULFUR	IC ACID, 0.5% S	OLUTION	
	Chemical name:	-			
	Catalogue number:	SK05-07	Г-Х**		
1.2.	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		For use with	special staining kits.	
	Uses advised against:		Only the ider	ntified uses are advised.	
	Reason why uses advis	sed	The product is intended for use only as an <i>in vitro</i> diagnostic med device, registered at the Agency for Medicinal Products and Medicines and there is no reason to use it for other purposes		
1.3.	Details of the supplier	of the safe	ety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska	59, Zagreb	
	Telephone number:		+385 1 24099	97	
	Fax no.:		+385 1 24040	39	
	e-mail of competent p	erson:	msds@biogno	<u>ost.hr</u>	
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	CTION 2. Hazards identification					
2.1.	Classification of the substance or	Classification of the substance or mixture				
2.1.1.	Classification according to Regul	ation (EC) No 12	.72/2008 (CLP)			
	Hazard class and categor	y code:	Hazard statements*:			
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-st	atements: see S	ection 16			
2.2.	Label elements					
	Product identification:	SULFURIC AC	ID, 0.5% SOLUTION			
	Identification number: -					
	Authorization no.:	-				
	Hazard pictograms:	-				



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

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

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Trading name:	SULFURIC ACID, 0.5% SOLUTION				
Product code:	SK05-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

SECTION 3. Co	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
7664-93-9/ 231-639-5/ 016-020-00-8	-	0.5 %	sulfuric acid, 96%	Skin Corr. 1A; H314				

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



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Trading name:	SULFURIC ACID, 0.5% SOLUTION				
Product code:	SK05-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		
4.3.	Indication of any immediate medical attention and special treatment needed			
	-			

SECTION	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit 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 ignit Do not contaminate the environm				

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protecti	ve equipment and emergency procedures				
6.1.1.	For non-emergency personne					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:  Evacuate members of all non-essential personnel and the members without protective equipment. Remove all sources 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.				



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Trading name:	SULFURIC ACID, 0.5% SOLUTION					
Product code:	SK05-OT-X**	Date of compilation:	21 Dec 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	
	-	

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



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Trading name:	SULFURIC ACID, 0.5% SOLUTION				
Product code:	SK05-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

SECTION 8. Exposur		ols/persona	l protec	tion				
8.1. Control para	meters			_				
Substance		CAS I	Occupational exposure limit No values/short term values Biological I		Biological limit values			
					ppm	mg/m³		
-		-			-	-	No information available	
Substance - name:								
EC No: -		CAS No:	-					
DNEL								
				Inc	dustrial			
Route of	A	Acute		Acut	e	Chronic	Chronic	
<b>exposure:</b> eff		ect local	effe	ct sys	temic	effect local	effect systemic	
Oral -			-			-	-	
Inhalation	-		-		-	-		
Dermal	-		-			-	-	
Critical physical para	meters: s	solubility, fla	mmabilit	ty, cor	rosivity:	-		
	1		1	Со	nsumer			
Route of exposure:		Acute ect local	Acute effect system			Chronic effect local	Chronic effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC								
Environmental protect	ction tar	get			PNEC	EC		
Fresh water					No infor	o information available		
Freshwater sediment	S				No information available			
Marine water					No infor	mation available		
Marine sediments					No information available			
Food chain					No information available			
Microorganisms in sewage treatment				No information available				
Soil (agricultural)					No information available			
Air					No infor	mation available		



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Trading name:	SULFURIC ACID, 0.5% SOLUTION					
Product code:	SK05-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

8.2.	Exposure controls					
8.2.1.	Engineering measures					
	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.			
			No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	ment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection					
			tive gloves must be according to the EU Directive 2016/425/EEC and and EN 374.  Glove material: nitrile rubber  Glove thickness: ≥0.50 mm			
	Other skin protection:		Break through time: >480 min antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	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 of	controls				
	Substance/mixture related measures to prevent expo		See Section 6			
	Structural measures to pre exposure:	event	Use modern equipment.			
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pre exposure:	event	See Section 6			

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



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Trading name:	SULFURIC ACID, 0.5% SOLUTION					
Product code:	SK05-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

	Physical state:	liquid	No information available
	Colour:	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
<u>.</u>	Other information		

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

SECTIO	SECTION 11. Toxicological information				
11.1.	1.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008				
	Acute toxicity:				



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Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Expos time	RACILITS	
Oral exposure: No information available		_	LD <sub>50</sub>	-	-	
Dermal exposure:  No information available		-	LD <sub>50</sub>	-	-	
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-	-	
Specific ta	rget organ toxicity – s	ingle exposure	(STOT SE):			
	Specific	effects	Target organ		Note	
Oral exposure:	No information	available	No information available	-		
Dermal exposure:	No information	available	No information available	-		
	No information available		No information	-		
Inhalation exposure Respirator			available ormation available	-		
Respirator	y irritation: nd corrosion	No info	available ormation available	Meth	Note	
Respirator Irritation a	y irritation:		available  ormation available  Evaluation	Meth od	Note	
Respirator Irritation a Skin irritation:	y irritation: nd corrosion	No info	available ormation available	Meth	Note -	
Respirator Irritation a	y irritation:  nd corrosion  Exposure time	No info	available  ormation available  Evaluation	Meth od		
Respirator Irritation a Skin irritation:	y irritation:  nd corrosion  Exposure time -	No info	available  ormation available  Evaluation	Meth od	_	
Respirator Irritation a Skin irritation: Eye irritation:	y irritation:  nd corrosion  Exposure time -	Species	available  ormation available  Evaluation	Meth od	_	
Respiratory  Irritation a  Skin irritation:  Eye irritation:	y irritation:  nd corrosion  Exposure time	Species	available  ormation available  Evaluation	Meth od	_	
Respiratory  Irritation a  Skin irritation:  Eye irritation:  Sensitization  Dermal exposure:  Inhalation exposure:	y irritation:  nd corrosion  Exposure time  No information avail	Species ilable	available  ormation available  Evaluation	Meth od -	_	
Respiratory  Irritation a  Skin irritation:  Eye irritation:  Sensitization  Dermal exposure: Inhalation exposure:  Symptoms	y irritation:  nd corrosion  Exposure time  No information avail	Species ilable ilable al, chemical and	available  ormation available  Evaluation	Meth od -	_	
Respiratory  Irritation a  Skin irritation:  Eye irritation:  Sensitization  Dermal exposure:  Inhalation exposure:	y irritation:  nd corrosion  Exposure time  No information available related to the physic	Species  ilable ilable al, chemical and vailable	available  ormation available  Evaluation	Meth od -	_	
Respiratory  Irritation a  Skin irritation:  Eye irritation:  Sensitization  Dermal exposure:  Inhalation exposure:  Symptoms  Oral exposure:	y irritation:  nd corrosion  Exposure time  No information available related to the physical No information a No information a No information a No information a	Species  Ilable Ilable al, chemical and vailable vailable	available  ormation available  Evaluation	Meth od -	_	



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

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



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Critorii	c inhalation	No informa	ition available	No information available	-
	CMR effects (	(carcinogenicity	y, mutagenicity, r	eproductive toxicity)	
	Carcinogenic	ity:	Based on av	ailable data, the classification criter	ia are not met.
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criter	ia are not met.
	Genotoxicity:		Based on av	ailable data, the classification criter	ia are not met.
	Mutagenicity	in-vivo:	Based on av	ailable data, the classification criter	ia are not met.
	Germ cell mu	ıtagenicity:	Based on av	ailable data, the classification criter	ia are not met.
	Reproductive	toxicity:	Based on av	ailable data, the classification criter	ia are not met.
		evaluation of the	he CMR propertie	·S:   -	
		evaluation of ti	ne Civik propertie	S:   -	
11.2		on other hazard		S:   -	
11.2 11.2.1.	Information c		ds:	S:   -	
	Information of Endocrine dis The substance components endocrine according to Commission 2017/2100 o	on other hazaro srupting prope e/mixture does	ds: rties: s not contain to have properties cle 57(f) or ulation (EU) Regulation	S:   -	
	Information of Endocrine distribution of Endocrine components endocrine according to Commission 2017/2100 of (EU) 2018/60	on other hazard srupting prope e/mixture does considered disrupting o REACH Artic Delegated reg or Commission 05 at levels	ds: rties: s not contain to have properties cle 57(f) or ulation (EU) Regulation	S:   -	

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



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Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-			
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-			
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-			
Other organisms	-	-	-	-	-	-			
12.2. Persistence and degradability									

12.2. Persi	istence and degradability			
Abio	tic degradation			
	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	<b>–</b>
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.	Bioa	ccumulative potentia	al							
	Partition coefficient: n-octanol/water (log Kow):									
Valu	ıe	Concentration	рН	°C	Method	Evaluation	Note			
-		No information available	-	-	No information available	No information available	-			

Bioconcentration factor (BCF)



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	Value		Species	Me	ethod	Evaluation		Note	
	o information No information available		on No informavailable	intorma		No inf	ormation available		
	Chronic e	cotoxici	ty						
	Value		Dose	Exposure time	Species	Method	Eva	lluation	Note
Chroni	ic toxicity o	n fish	LC <sub>50</sub>	No information available	No information available	No information available	No info	ormation ble	-
	ic toxicity or cea ( <i>Daphni</i>		EC <sub>50</sub>	No information available	No information available	No information available	No info	ormation ble	-
	No inforr Surface t		vailable						
	Surface t	ension:							
	Value		°C	Concentrat	tion	Method		N	ote
	No	No	)	No informat	ion		ahla		
	informati available		formation ailable	available	No in	formation avail		-	
					No in	formation avail			
		av	ailable		No in	formation avail			
Transp	Adsorption	av	orption fficient		No in	formation avail		Method	Note
	Adsorption ort H	av. on / desc A/D coet denry's c	orption fficient	available	Evapo	pration rate		Method ormation	Note
Transp Soil-w Water	Adsorption ort Hater No available No	av. on / desc A/D coel denry's coel ir lable	orption fficient onstant	log Kow No informatio	Evapo n No inforr available	pration rate mation	No info	Method ormation ole ormation	Note -



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12.5.	Results of PBT and vPvB assessment
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
	<b>3</b>
12.6.	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.
12.7.	Other adverse effects
	No information available
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:
13.1.3.	No information available
	The information dyaliable
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:



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

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SECTION 14. Transport information	
Transporting/shipment by road	(ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (	RID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	_
Special precautions for user:	-
Inland waterway transport (ADN	<b>J</b> )
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (	IMDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (I	CAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-



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Special precautions for user:		-
Further information:	-	

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

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



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

#### **ANNEX:**

**Exposure scenario resulting to Chemical safety assessment** 

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