

## 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



Page 1 of 16

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

1.1.	Product identifier				
	Trading name:	HEMATOX	HEMATOXYLIN P.T.A.		
	Chemical name:	-	-		
	Catalogue number:	HPTA-OT-	HPTA-OT-X**		
1.2.	Relevant identified use	es of the sub	stance or mi	xture and uses advised against	
	Uses:		For staini	ng tissue structures.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:	E	BioGnost Ltd.		
	Address:	١	Medjugorska 59, Zagreb		
	Telephone number:	+	+385 1 2409997		
	Fax no.:	+	+385 1 2404039		
	e-mail of competent p	erson: <u>r</u>	msds@biognost.hr		
	National contact:		•		
1.4.	Emergency telephone	Emergency telephone number			
	National Protection an	d Rescue Di	rectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ECTION 2. Hazards identification						
2.1.	Classification of the substand	ce or mixture					
2.1.1.	Classification according to R	egulation (EC) No 1	272/2008 (CLP)				
	Hazard class and cat	egory code:	Hazard statements*:				
	Not identified as hazardous	substance.	-				
2.1.2.	Additional information						
	-						
*For fu	Ill text of Hazard- and EU Hazar	rd-statements: see S	Section 16				
2.2.	Label elements						
	Product identification:	HEMATOXYL	IN P.T.A.				
	Identification number:	-					
	Authorization no.:	Authorization no.: -					
	Hazard pictograms:	-					



Page 2 of 16

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

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

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



Page 3 of 16

Tradin	ig name:		HEMATOXYLIN P.T.A.				
Product code: +		HPTA-OT-X**	Date of compilation:	14 November 2022	Version:	4	
	Following	) ingestion:	Swallowing may cause irritat burning sensation; higher lev abdominal pain and vomitin coughing, difficult breathing suffocation.	vels of concentration may g. In case of vomiting, asp	cause nausea	1, S	
4.3.	Indication	n of any immediate	medical attention and special	treatment needed			
	-						

\_\_\_\_\_

SECTIO	ECTION 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 co Cool closed containers exposed to f	ompressed 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				

SECTIC	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protect	ve equipment and emergency procedures			
6.1.1.	For non-emergency personne	1			
	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 (s	ee Section 8).			
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



Page 4 of 16

Tradin	ig name:	E HEMATOXYLIN P.T.A.				
Produ	oduct code: HPTA-OT-X** Date of compilation: 14 November 2022 Version:		Version: 4			
6.3.2.	Cleaning	ıb:	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 involve materials with water.		e the waste material ubstance in well sposal to the legal and Nature	
6.3.3.	Other info	ormation: -				
6.4.	Reference	e 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	TION 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 ignit not smoke.	ion. Do			
	Measures to prevent aerosol and dust generati	n: Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system an waterways.	nd			
	Other measures:	-				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any inco	patibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a we ventilated storage rooms, and away from sources of hea 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 cont tightly closed.	ainers			
	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 storag and do not use empty containers for storing of chemicals. Do not store with incompatible mat Section 9).	ther			
7.3.	Specific end use(s)					



Page 5 of 16

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

Recommendations:	-
Industrial sector specific solutions:	-

		ols/personal	protec					
8.1. Control pa	rameters							
Colored a			-	•		posure limit erm values	Di-L	
Substance		CAS N	10			mg/m <sup>3</sup>	BIOIO	gical limit values
_		_		ppm		-	No informa	tion available
		_		_		_		
Substance _								
EC No: -		CAS No:	-					
DNEL								
				Industria	al			
		Acute		Acute		Chron	ic	Chronic
Route of exposure:	effe	ect local effect sy		ect systemic		effect lo	ocal	effect systemic
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
Critical physical par	ameters: s	solubility, flar	nmabilit	ty, corrosivit	y:	-		
				Consume	er			
Route of exposure:		Acute		Acute		Chron	ic	Chronic
Noute of exposure.	effe	ct local effect sys		ect systemic		effect lo	ocal	effect systemic
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC				F				
Environmental prot	ection tar	get		PNE	PNEC			
Fresh water				No ii	No information available			
Freshwater sedimer	nts			No ii	No information available			
Marine water				No ii	nform	ation availabl	е	
Marine sediments				No ii	No information available			
Food chain				No ii	No information available			
Microorganisms in	sewage tr	eatment		No ii	nform	ation availabl	e	
Soil (agricultural)				No ii	No information available			



Page 6 of 16

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

Air			No information available				
8.2.	Exposure controls						
8.2.1.	Appropriate engineering controls						
	Substance/mixture relate measures to prevent exp during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to preserve exposure:	revent	No information available				
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equi	pment					
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection						
8.2.2.2.			Protective gloves must be according to the EU Directive 2016/425/EEC an standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:		Vear antistatic clothing made of natural fibers (such as cotton) with long leeves (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 pr 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 pr exposure:	event	See Section 6				



Page 7 of 16

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

	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
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	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

SECTIC	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**



Page 8 of 16

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

		denned in Regi	ulation (EC) No 127	2/2000		
Acute toxi	city:			1		
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 ta	rget organ toxicity – si	ngle exposure (	STOT SE):			
	Specif	ic effects	Target	organ		Note
Oral exposure:	No information	available	No informatio	on available	-	
Dermal exposure:	No information	available	No informatio	No information available		
Inhalation exposure	e: No information	available	No informatic	No information available		
Aspiration	hazard:	No info	rmation available			
Irritation a	nd corrosion:					
	Exposure time	Species	Evaluation	Method		Note
Skin irritation:	-	-	-			
Eye irritation:	-	-	-			
,	1			I		
Sensitizati	on					
	on No information avail	able				
Sensitization Dermal exposure: Inhalation exposure:	[					
Dermal exposure: Inhalation exposure:	No information avail	able	toxicological chara	cteristics		
Dermal exposure: Inhalation exposure:	No information avail No information avail related to the physica Swallowing may c sensation; higher	able II, chemical and ause irritation o levels of concer g, aspiration ca	of mucosa, tingling s ntration may cause r uses coughing, diffi	sensation in th nausea, abdor	minal pa	in and vomitin



Page 9 of 16

Trading name:	Trading name: HEMATOXYLIN P.T.A.						
Product code:	HP	TA-OT-X**	Date o	f compilatio	n: 14 Novem	ber 2022	Version: 4
Inhalation expos	lire <sup>.</sup>		large amounts eezing, heada	•	inadequately ve ea.	ntilated perime	eter may cause
Eye exposure:		Direct eye co sensation.	ontact may cau	se slight to m	noderate irritation	n, lacrimation a	nd burning
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Subacute dermal	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Subchronic oral	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Chronic oral	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Chronic dermal	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No informatio available	n -
Specific	target	organ toxicit	y – repeated e	xposure (STC	)T RE):		
			pecific effects	- •	Target or	rgan	Note
Subacute oral		No informa	ition available	Ν	lo information av	vailable	-
Subacute dermal		No informa	ition available	Ν	lo information av	vailable	_
Subacute inhalat	ion	No informa	ition available	Ν	lo information a	vailable	_



Page 10 of 16

Trading	g name:		HEM	ΑΤΟΧ	YLIN P.T.A.		
Product code: HPTA-OT-X**		HPTA-OT-X**	Date of compilation: 1		14 November 2022	Version:	4
Subchro	nic oral	No informatio		Nair	nformation available	_	
						-	
	onic derma				formation available	-	
	nic inhalat				nformation available	-	
Chronic		No informatio			nformation available	-	
Chronic		No informatio			formation available	-	
Chronic	inhalation	No information	on available	No ir	formation available	-	
			mutagenicity; reprodu		•		
	Carcinoge	enicity:	Current studies on test animals did not indicate carcinogenic effects.				
	Mutageni	city <i>in-vitro</i> :	Current in vitro tests did not indicate mutagenic effects.				
	Genotoxic	city:	No information available				
	Mutageni	city <i>in-vivo</i> :	Current <i>in vivo</i> tests did not indicate mutagenic effects. No information available				
	Germ cell	mutagenicity:					
	Reproduc	tive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.				
	Summarv	of evaluation of the	CMR properties: -				
			•••••••••••••••••••••••••••••••••••••••				
11.2.	Informatio	on on other hazards:					
11.2.1.	Endocrine	e disrupting propertion	es:				
	No knowr	n endocrine disruptir	ng properties that affe	ct hum	an health.		
11.2.2.	Other info	ormations:					
	-						

SECTION 12. Ecologi	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					



Value

Species

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

Trading nam	e:				HEMATO	XYLI	IN P.T.A.				
Product code	e: F	IPTA-OT-X	**	Date	e of compilation:	14	4 November	2022	Vers	ion:	4
Fish	LC <sub>50</sub> 96 hc		96 hoi	hours		availahla		No informat available		-	
Crustacea:		EC <sub>50</sub>	48 hoi	urs	No information available		information ilable	No informat available		-	
Algae/aquatic	plants	IC <sub>50</sub>	72 hoi	urs	No information available		information ilable	No informa available		-	
Other organis	ms	-	-		-	-		-		-	
		nd degradal	oility								
Abio	tic degra		f 1:		Mathad		<b>F</b> .	volu oti o v			Net-
Marine	Deg	Degradation half-lives			Method		Evaluation				Note
water	No inf	formation av	ailable	No	lo information available		No information available		-		
Fresh water	No inf	formation av	ailable	No	information availa	ble	No informa	tion availa	ble	-	
Air	No inf	formation av	ailable	No	information availa	information available No information		tion availa	ble	-	
Soil	No inf	formation av	ailable	No	information availa	ble	No informa	tion availa	ble	-	
	egradati										
% Degradatio		Time (day			Method		Evaluation			lote	
No informatic available		ailable					No information available		No information available		
12.3. Bioad	cumula	tive potentia	I								
Octa	nol-wate	er partition o	oefficier	nt (log	Kow)						
Value	Conce	entration	рН	°C	2 Method		Evaluat	ion		Note	
	No ir availabl	nformation	-	-	No informatio available	n	No informa available	tion	-		

Method

Evaluation

Note



Page 12 of 16

Tradin	g name:		HEMATOXYLIN P.T.A.										
Produc	ct code:	HP	HPTA-OT-X** Date		ate of c	ompil	ation:	14 No	vember 2	022	Ve	ersion:	4
	No information No inform available available		ation No information available		No information available			No information available		n			
	1												
	Chroni	c ecotoxi	city										
	Value		Dose		ime	Spe	ecies	Met	hod	Eva	luation		Note
Chronio	c toxicity	on fish	LC <sub>50</sub>	No infor availa	mation able	No inforr availa	mation able	No inform availab	ation ir	lo nforr vaila	nation ble	-	
Chronic toxicity on crustacea ( <i>Daphnia</i> )		EC <sub>50</sub>	No information		No inforr availa	mation able	No inform availab	ation ir		lo nformation vailable			
12.4.		y in soil											
		•	cted distributi	on in e	environm	ental c	compart	ments:					
		e tension	available										
	Val		°C	C	oncentra	tion		Metho	d			Note	
	No informa availab	ation i	No nformation available	No	informat iilable		No inf availat	formation _			Note		
	Adsorp	tion / de	sorption										
Transpo	ort		oefficient constant	lc	og Kow	E١	vaporati	on rate	Metł	nod		Nc	ote
Soil-wa	ater N av	o ⁄ailable	information	No ir availa	nformatio able		o inform ailable	nation	No inforr available	natio	on -		
Water-	air N av	o ⁄ailable	information	No ir availa	nformatio able		o inform ailable	nation	No inforr available	natio	on -		
Soil-air	. N av	o ⁄ailable	information	No ir availa	nformatic able		o inform ailable	nation	No inforr available	natio	on -		
12.5.	Results	of PBT a	ind vPvB asses	sment	:								
	No info	ormation	available										



Page 13 of 16

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

12.6.	Endocrine disrupting properties						
	No known endocrine disrupting	properties that affect the environment.					
12.7.	Other adverse effects						
	No adverse effects are expected	J.					
	N 13. Disposal considerations						
13.1.	Waste treatment methods						
13.1.1.	Product/Packaging disposal:						
15.1.1.		al person authorized by the Ministry of Environmental and Nature					
	Protection.	a person autionzed by the ministry of Environmental and Nature					
13.1.2.	Waste codes/waste designation	ons according to Law:					
	No information available						
13.1.3.	Waste treatment – relevant in	formation:					
	No information available						
13.1.4.	Sewage disposal – relevant inf						
	Waste must not be disposed of	of into the sewage system.					
12.1.5							
13.1.5.	Other disposal recommendation						
	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						
12.1.6	ignition may occur.						
13.1.6.	Relevant Community provision	ns:					
	-						
SECTIO	N 14. Transport information						
JECHO	Transporting/shipment by road						
UN num		Not subject to transport regulations.					
	ber shipping name:						
	rt hazard class(es):	_					
nanspo							



Page 14 of 16

Trading name:	HEMATOXYLIN P.T.A.								
Product code:	HPTA-OT-X**	Date of compilation:	14 November 2022	Version: 4					
Packing group:		-							
Environmentally ha	zardous:	-							
Special precautions	for user:	-							
Transporti	ng/shipment by rail (	RID)							
UN number:		Not subject to transport	regulations.						
UN proper shipping	g name:	-							
Transport hazard cl	ass(es):	-							
Packing group:		-							
Environmentally ha	zardous:	-							
Special precautions	for user:	-							
Inland wat	erway transport (ADI	N)							
UN number:		Not subject to transport	regulations.						
UN proper shipping	g name:	-							
Transport hazard class(es):		-							
Packing group:	Packing group:		-						
Environmentally ha	zardous:	-							
Special precautions	for user:	-							
Transporti	ng/shipment by sea	(IMDG)							
UN number:		Not subject to transport	regulations.						
UN proper shipping	g name:	-							
Transport hazard cl	ass(es):	-							
Packing group:		-							
Environmentally ha	zardous:	-							
Special precautions	for user:	-							
Transporti	ng/shipment by air (I	CAO-TI/IATA-DGR)							
UN number:		Not subject to transport	regulations.						
UN proper shipping	g name:	-							
Transport hazard cl	ass(es):	-							
Packing group:		-							
Environmentally ha	zardous:	-							
Special precautions	for user:	-							
Further information	: The product	is not subject to classificatio	n.						



Page 15 of 16

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

	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation an Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC an 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 200 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products an amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safet of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 1 December 2008 on classification, labelling and packaging of substances an mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, an amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certaid dangerous substances, mixtures and articles (Annex XVII);</li> </ul>
	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
5.2.	Chemical safety assessme	

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		



\_

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

Page 16 of 16

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

16.3.	Key literature references and source of data:				
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	cation	Classification procedure			
-		-			
16.5.	Relevant H statements (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



Page 1 of 17

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

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

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regi	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and catego	ory code:	Hazard statements*:			
	Not identified as hazardous sub	ostance.	-			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-	statements: see S	SECTION 16			
2.2	Label elements					
	Product identification:	OXALIC ACID, 1	% SOLUTION			
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	-				



Page 2 of 17

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

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

SECTION 3. Cor	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	ECTION 4. First aid measures				
4.1	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.			
	Self-protection of the first aider:	-			
4.2	Most important symptoms and 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.			



Page 3 of 17

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 r	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 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.				
5.4	Additional information				
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. 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. 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 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 protective barrier or barriers made of similar materials.			



Page 4 of 17

Trading name:	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 in	formation.	

SECTIO	DN 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 generatio	n:	Secure proper ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
	Other measures:		Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. The	oroughly was	sh hands after work and before eating.	
7.2	Conditions for safe storage, including any incom	patibilities		
	Technical measures and storage conditions:	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:	Manufactu	ırer's original packaging.	
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.		
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.	



Page 5 of 17

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

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

SECTION 8. Expos	ure contro	ols/persc	onal pr	otect	tion				
8.1 Control pa	arameters								
Substance	9	CA	S No			•	exposure limit term values	Bi	ological limit values
					р	pm	mg/m³		-
-			-			-	-	-	
Substance name:	-	1		1					
EC No:	-	CAS No	:	-					
DNEL									
					Ind	ustrial			
Route of	Αςι	ıte		Acut	e		Chronic		Chronic
exposure:	effect	local	effe	ct sys	stemic		effect local		effect systemic
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-			-		-	
Critical physical par	rameters: s	olubility,	flamm	abilit	y, corr	osivity:	-		
					Con	sumer			
Route of	Ad	cute		Acut	te		Chronic		Chronic
exposure:	effec	t local	effe	ct sys	stemic		effect local		effect systemic
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-			-		-	
PNEC									
Environmental prot	tection tar	get				PNEC			
Fresh water					ļ	no information available			
Freshwater sedime	nts					no information available			
Marine water						no inform	nation available		
Marine sediments						no inform	nation available		



Page 6 of 17

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

Food chain	no information available
Microorganisms in sewage treatment	no information available
Soil (agricultural)	no information available
Air	no information available

8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measures to prevent exposure during identified uses:		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:	nt	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	posure:	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 lo levels of concentration in air; protective gas mask that covers entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
8.2.2.2.	Hand protection:       Regula         Hand protection:       During footweentire imperiod         Other skin protection:       imperiod		protective gloves have to satisfy the specification of ulation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
			everyday work use cotton clothing (EN 340) and suitable ar, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		



Page 7 of 17

Trading name:	OXALIC ACID, 1% 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 basic physical and	chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	purple brown	No information available
Odour/odour threshold:	characteristic/no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n- octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

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



Page 8 of 17

					- <u>J</u>	
Tradin	ng name:	OXALIC ACID, 1% SOLUTION				
Produ	oduct code: OKS1-OT-X**		Date of compilation:	21 Dec 2022	Version:	4
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	Condition	s to avoid:	No information available			
10.5	Incompati	ble materials:	No information available			
10.6	Hazardous	s decomposition products:	No information available			

	oxicological informanation on hazard classe		in Poqu	lation (EC) No.	1272/200	<u></u>		
	toxicity:		in Regu		1212/200	50		
Route of exposure:	Method	Species	ecies Effective Dose LD <sub>50</sub> /LC <sub>50</sub> Expos		Exposure	time	Results	
Oral:	No information available	-	No	information av	ailable	e -		_
Dermal:	No information available	-	No	information av	ailable	-		-
Inhalation:	No information available	-	No	information av	ailable	-		-
Specifi	c target organ toxicity	v – single expo	osure (S	TOT SE):				
	Specif	fic effects		Targ	et organ			Note
Oral:	No information	available		No information available			-	
Dermal:	No information	available		No information	on availa	ble	-	
Inhalation:	No information	available		No information available			-	
Aspira	tion hazard:	Ν	lo inforr	mation availabl	e.			
Irritatio	on and corrosion							
	Exposure	e time	Spec	ies Evalu	ation	Method		Note
Skin corrosion/irritat	tion:	_		-		-	-	
Serious eye damage/irritatio	on -	-		-		-	-	
Sensiti	zation							
Skin sensitizatio	on: No info	ormation avail	lable.					
Respiratory sen	sitization: No info	ormation avai	lahla					



Г

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

Page 9 of 17

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

•		on available.						
Dermal exposure	: No informati	nformation available.						
Inhalation expos	ure: No informati	on available.						
Eye exposure:	No informati	on available.						
Repeate	ed dose toxicity (sub	acute, 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	-		
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-		
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-		
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-		
Chronic oral	No information available	No information available	No information available	No information available	No information available	-		
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-		
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-		



Page 10 of 17

		Page 10 of 17							
Trading	g name:		OX	ALIC ACID, 1%	SOLUTION				
Produc	ct code:	OKS1-OT-X**	S1-OT-X** Date of compila		21 Dec 2022	Version:	4		
Subacu	te oral	No information av	ailabla	Noi	nformation available	_			
	te dermal	No information av		-	nformation available	-			
	te inhalation	No information av			nformation available	_			
	bchronic oral No information available				nformation available	_			
Subchronic dermal No information availab			-	nformation available	-				
Subchronic inhalation No information av				nformation available	-				
Chronic oral		No information av			nformation available	-			
		No information av	ailable	No i	nformation available	-			
Chronic inhalation		No information av	ailable	No i	nformation available	-			
	CMR effect	s (carcinogenicity; muta	genicity; re	productive toxicit	y)				
	Carcinogen	icity:	Bas	sed on available da	ata, the classification	criteria are not r	met.		
	Mutagenici	ty <i>in vitro</i> :	Bas	sed on available da	ata, the classification	criteria are not i	met.		
	Genotoxicit	y:	Bas	sed on available da	ata, the classification	criteria are not r	met.		
	Mutagenici	ty <i>in vivo</i> :	Bas	Based on available data, the classification criteria are not met.					
	Germ cell n	nutagenicity:	Bas	Based on available data, the classification criteria are not met.					
	Reproducti	ve toxicity:	Bas	Based on available data, the classification criteria are not met.					
	Summary properties:	of evaluation of t	he CMR	Based on availal met.	ole data, the classific	ation criteria a	re no		
11.2	Informatior	n on other hazards:							
11.2.1.	Endocrine o	disrupting properties:							
	component disrupting Article 57 regulation Regulation	ance/mixture does not ts considered to have of properties according t (f) or Commission [ (EU) 2017/2100 or Co (EU) 2018/605 at levels of	endocrine to REACH Delegated ommission						
	higher.								

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



Page 11 of 17

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	-
~ ·	EC <sub>50</sub>	48 hours	No information available	No information	No information	-
Crustacea:			available	available	available	
Crustacea: Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	available No information available	available No information available	-

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-
Biodeg	gradation			
% Degradation	on Time (days)	Method	Evaluation	Note

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



Page 12 of 17

Tradin	ig name:				0	XALIC	ACID,	1% SC	DLUTIC		ruge		
Produ	ct code:	OKS1-	-OT-X**		Date	of co	mpilatio	on:	21 De	c 2022	, ,	Version:	4
12.3	Bioaccum	ulative p	otential										
	Octanol-w	ater par	tition coeff	icient (	log Kow)	)							
Valu	ue Co	ncentrati	ion p	H	°C Method				Evalua	ation		Note	
-	-		-			-		-			-		
	Bioconcen	tration f	actor (BCF)										
	/alue		Species		Method		F	Valuatio	on		Note		
•		inform	ation	No info	ormatio		No in	formatio		-			
		availab	le		available			availa	available				
					8 8 9								
	Chronic ed	cotoxicity	/										
	Value		Dose		osure ime	Sp	ecies	Me	thod	Evalu	ation	Note	
Chroni	c toxicity on	fish	LC <sub>50</sub>	No information available			information		nation ble	No inform availab		-	
	c toxicity on cea ( <i>Daphnia</i>	)	EC <sub>50</sub>	No infor availa	mation able	No infori availa	mation able	No inforn availa	nation ble	No inform availab		-	
12.4	Mobility ir	n soil											
16,7	-		d distributi	on in e	environm	ental	compart	ments:					
	No inform						P 4						
	Surface te	nsion:											
	Value		°C	C	oncentra	tion		Meth	od			Note	
	No informatic available		ormation iilable		informa iilable	tion	No inf availat	ormatio ble	on	-			



Page 13 of 17

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

	Adsorption / desorption				
Transpo	rt A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wat	er No information available	No information available	No information available	No information available	-
Water-a	ir 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 asse	ssment			
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	not contain compo 7(f) or Commission	n Delegated regulation		
12.6.	Endocrine disrupting propert	ies			
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulation		
12.7	Other adverse effects				
	No further relevant informati	on available.			
	N 13. Disposal consideration	IS			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	al:			
	Submit for disposal to the Protection.	legal person autho	rized by the Ministry of	Environmental a	and Nature
13.1.2.	Waste codes/waste design	ations according to	o Law:		
	15 01 10*: Packaging that of substances	5		is contaminated	l with hazardous



Page 14 of 17 Trading name: **OXALIC ACID. 1% SOLUTION** Date of compilation: 21 Dec 2022 Version: 4 Product code: OKS1-OT-X\*\* No information available 13.1.4. Sewage disposal - relevant information: Waste must not be disposed of into the sewage system. 13.1.5. Other disposal recommendations: Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. 13.1.6. Relevant Community provisions: Disposal must be made according to official regulations. **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) Not subject to transport regulations UN number: UN proper shipping name: \_ Transport hazard class(es): \_ Packing group: -Environmentally hazardous: \_ Special precautions for user: \_ Transporting/shipment by sea (IMDG) UN number: Not subject to transport regulations



Page 15 of 17

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

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

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:	<ul> <li>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;</li> <li>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 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;</li> <li>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;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>		



Page 16 of 17

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

	Information according 19 guideline)	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 assessm	ent				
	None					

SECTIO	ON 16	. Other information				
16.1	Indi	cation of changes:	-			
16.2	Abb	previations and acronyms:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>			
16.3.		literature references and rce of data:	-			
16.4.		sification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classifi	cation	1	Classification procedure			
-			-			
16.5.	Rele	evant H statements (numl	per and full text)			
	H:	315	Causes skin irritation			
		319	Causes serious eye irritation.			
		335	May cause respiratory irritation.			
16.6.	Trai	ning advice:	-			
16.7.	Furt	her information:	<ul> <li>** "X" in the product code marks different volumes (different packaging the product)</li> <li>We are not responsible for consequences in case of failure to comply w instructions for use or improper use of the product described in this material safety data sheet.</li> </ul>			



Page 17 of 17

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

ANNEX: Exposure scenario resulting to chemical safety assessment



### SAFETY DATA SHEET

Page 1 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLU			ION
Product code:	KP05-OT-X**	Date of compilation	: 03.06.2019.	V

Version: 5

SECTI	ON 1 IDENTIFICATION	OF THE SU	JBSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	POTASS	IUM PERMANO	GANATE, 0.5% SOLUTION		
	Chemical name:	-				
	Catalogue number:	KP05-01	Г-Х**			
1.2.	Relevant identified use	es of the su	ubstance or mi	xture and uses advised against		
	Uses:		For use w	ith special staining kits.		
	Uses advised against:		Only the i	dentified uses are advised.		
	Reason why uses advised against: medical device, registered at the Agency for Me			uct is intended for use only as an <i>in vitro</i> diagnostic levice, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier	of the safe	ety data sheet			
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 24099	+385 1 2409997		
	Fax no.:		+385 1 24040	039		
	e-mail of competent p	erson:	<u>msds@biogn</u>	<u>ost.hr</u>		
	National contact:		-			
1.4.	Emergency telephone	number				
	National Protection ar	nd Rescue	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIC	CTION 2 HAZARDS INFORMATION				
2.1.	Classification of the substance or	mixture			
2.1.1.	Classification (REGULATION (EC) N	No. 1272/2008	(CLP)		
	Hazard class and category	v code:	Hazard statements*:		
	Aquatic Chronic 3		H412		
2.1.2.	Additional information				
	-				
*For ful	ll text of Hazard- and EU Hazard-sta	atements: see S	ection 16		
2.2.	Classification according to EC Dire	ective Nr. 1272,	/2008 CLP)		
	Product identification:	POTASSIUM	PERMANGANATE, 0.5% SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			
	Signal word:	-			



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

Page 2 of 16

Trading name:	<b>POTASSIUM PERMANGANATE, 0.5% SOLUTION</b>				
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5	

	Hazard statements: H412 Harmful to aquatic life with long lasting effects.	
	Precautionary statements:	<ul><li>P273 Avoid release to the environment</li><li>P501 Dispose of contents/container in accordance with local regulations.</li></ul>
	Further information:	-
2.3.	Other hazards	
	-	

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	-	<1%	potassium permanganate	Oxid. Solid 2; H272 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	

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



-

## SAFETY DATA SHEET **BIOGNOST**<sup>®</sup> According to Regulation (EC) No. 1907/2006

Page 3 of 16

Tradin	ig name:		ΡΟΤΑ	SSIUM PERMANGAN	ATE, 0.5% SOLUT	ION	
Produ	ct code:	KP05-OT-X**		Date of compilation:	03.06.2019.	Version:	5
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	n of any immediate	medical	attention and special treat	tment needed		

SECTI	N 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.

SECTIC	ON 6 ACCIDENTAL RELEASE M	EASURES	
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personne	1	
	Protective equipment:	Use personal protective equipment (see Section 8).	
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.	
	Emergency procedures:	Mark the area using proper signs.	
6.1.2.	For emergency responders:		
	Wear protective equipment (s	ee Section 8).	
6.2.	Environmental precautions:		
	Do not dispose of in sewage, Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National prate (NPRD) on 112.	
6.3.	Methods and material for cor	tainment and cleaning up	
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.	



Page 4 of 16

Tradin	ng name:		ΡΟΤΑ	ASSIUM PERMANGAN	ATE, 0.5% SOLU <sup>T</sup>	TION
Produ	ct code:	KP05-OT-X**		Date of compilation:	03.06.2019.	Version: 5
6.3.2.	Cleaning	up:	mater in tigl ventil perso Prote	e possible, the substance c ial (sand, diatomaceous ea ntly closed impermeable co ated storage rooms until d ns authorized by the Minis ction. After disposal of the rials with water.	arth, vermiculite). P ontainers. Store the lisposal. Submit for stry of Environmen	Place the waste material e substance in well r disposal to the legal tal and Nature
6.3.3.	Other inf	ormation:	-			
6.4.	Reference	e to other sections				
	-					

SECTIO	N 7 HANDLING AN STORAGE					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures	1 measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust generation	on: Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				
	Other measures:	-				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Th	noroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incon	npatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, 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:	-				



Page 5 of 16

Trading name:	PC	DTASSIUM PERMANGANA	ATE, 0.5% SOLU	TION	
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version:	5

8.1.	Control par	ameters						
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values		
					ppm	mg/m <sup>3</sup>		
Potassium permanganate		anate	7722-6	4-7	-	5	No information available	
Substa name:	nce _							
EC No:	-		CAS No:	_				
DNEL								
					Industrial			
Route expos	-		Acute ect local	effe	Acute ect systemic	Chron effect lo		
Oral		-		-		-	-	
Inhalat	ion	-		-		-	-	
Derma	I	-		-		-	-	
Critica	physical para	meters: s	solubility, fla	mmabili	ty, corrosivity:	-		
					Consumer			
Route	of	4	Acute		Acute Chron		ic Chronic	
expos	ure:	effe	ect local effect sy		ect systemic	effect lo	ocal effect systemic	
Oral		-		-		-	-	
Inhalat	ion	-		-		-	-	
Derma	1	-		-		-	-	
PNEC								
	nmental prote	ction tar	get		PNEC			
Fresh v						No information available		
	ater sedimen	ts				No information available		
Marine						No information available		
	e sediments					rmation availabl		
Food chain						rmation availabl		
Microorganisms in sewage treatment						rmation availabl		
Soil (agricultural)						rmation availabl		
Air					No info	rmation availabl	e	

Page 6 of 16

Trading name:	Р	OTASSIUM PERMANGANA	TE, 0.5% SOLUTIC	DN
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5

8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent expo 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 pr exposure:	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 pro exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	oment			
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.		
8.2.2.2.	Skin protection				
			otective gloves must be according to the EU Directive 2016/425/EEC and andard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		ear antistatic clothing made of natural fibers (such as cotton) with long eeves (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN () used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	formation available		
8.2.3.	Environmental exposure of	controls			
	Substance/mixture related measures to prevent expo		See Section 6		
	Structural measures to pr exposure:	event	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pro exposure:	event	See Section 6		

SECTIO	ON 9 PHYSICAL AND CHEMICAL PROPE	RTIES	
9.1.	Information on basic physical and chen	nical properties	
		Value	Method
	Physical state:	liquid	No information available
	Color:	dark purple	No information available

Page 7 of 16

Trading name:	ΡΟΤΑ	SSIUM PERMANGANA	ATE, 0.5% SOLUTIC	)N	
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version:	5

Odor:	odourless	No information available
Odor threshold:	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapor pressure:	No information available	No information available
Vapor density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	Soluble in water (20 °C)	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	No information available	No information available
Other information		

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

SECTIO	SECTION 11 TOXICOLOGICAL INFORMATION					
11.1.	Information on toxicological effects					
	Acute toxicity:					



Page 8 of 16 Trading name: **POTASSIUM PERMANGANATE, 0.5% SOLUTION** Product code: KP05-OT-X\*\* Version: 5 Date of compilation: 03.06.2019. Effective dose Route of Method LD<sub>50</sub>/LC<sub>50</sub> or Species Exposure time Results exposure: ATE<sub>mixture</sub> No information No information Oral exposure: \_ available available No information No information Dermal exposure: available available No information Inhalation No information available exposure: available Specific target organ toxicity - single exposure (STOT SE): Specific effects Target organ Note Oral exposure: No information available No information available \_ No information available No information available Dermal exposure: \_ Inhalation exposure: No information available No information available \_ Respiratory irritation: No information available Irritation and corrosion Exposure time Evaluation Method **Species** Note Skin irritation: rabbit \_ \_ \_ \_ rabbit \_ Eye irritation: \_ -\_ Sensitization No information available Dermal exposure: Inhalation No information available exposure: Symptoms related to the physical, chemical and toxicological characteristics Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. Oral exposure: In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation. Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure Dermal exposure: may cause drying, cracking and tingling sensation of skin. Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause Inhalation exposure: coughing, sneezing, headache and nausea. Direct eye contact may cause slight to moderate irritation, lacrimation and burning Eye exposure: sensation.

Page 9 of 16

Trading name:	
Product code:	KP05-OT-X**

Date of compilation: 03.06.2019.

POTASSIUM PERMANGANATE, 0.5% SOLUTION

Version: 5

Переше	d dose toxicity (sub			C)				
	Dose	Exposure time	Species		Method	Evaluatio	n No	ote
Subacute oral	No information available	No No information inform available availab		on	No information available	No informati available	on -	
Subacute dermal	No information available	No information available	No information available		No information available	No informati available	on -	
Subacute inhalation	No information available	No information available	No information available		No information available	No informati available	on -	
Subchronic oral	No information available	No information available	No information available		No information available	No informati available	on -	
Subchronic dermal	No information available	No information available	No information available		No information available	No informati available	on -	
Subchronic inhalation	No information available	No information available	No information available		No information available	No informati available	on -	
Chronic oral	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Chronic dermal	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Chronic inhalation	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Specific	target organ toxici	· · ·	xposure (S	TOT R				
		Specific effects			Target orga			Note
Subacute oral		ation available			nformation avai		-	
Subacute dermal		ation available			nformation avai		-	
Subacute inhalat		ation available			nformation avai		-	
Subchronic oral		ation available			nformation avai		-	
Subchronic derm		ation available			nformation avai		-	
Subchronic inhal	ation No inform	ation available		No information available			-	

Page 10 of 16

Trading name:	ΡΟΤΑ	SSIUM PERMANGANA	TE, 0.5% SOLUTIO	)N
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5

Chroni	ic dermal	No informa	tion available		No information available	-					
Chronic inhalation No informat			tion available	on available No information availab		-					
	CMR effects	(carcinogenicity	v, mutagenicity,	, repro	ductive toxicity)						
	Carcinogenicity: Carcinogenicity:		Current st	Current studies on test animals did not indicate carcinogenic effects.							
	Mutagenicity <i>in-vitro:</i> Genotoxicity:		Current in	Current in vitro tests did not indicate mutagenic effects.							
			No inform	No information available							
	Mutagenicity	Current in	Current in vivo tests did not indicate mutagenic effects.								
	Germ cell mu	No inform	No information available								
	Reproductive	No toxicity on reproductive organs was determined in reproductive organs.									
	Summary of	evaluation of th	e CMR propert	ties:	-						
11.2.	Practical exp	eriences:									
	Remarks rele	evant for classifie	cation: I	No info	ormation available						
	Other remarks:			No information available							
11.3.	General note	es:									
	-										

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	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>	8 days	No information available	No information available	No information available	-				
Microorganisms	LC <sub>50</sub>	72 hours	-	-	_	_				
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				

Trading nar	ne:		PO	TASSI	UM PERMAN	GANA	<b>ATE, 0.5</b> 9	% SOLU		11 of 16	
Product code: KP05-OT-X**			:*	Da	ate of compila	tion:	03.06.2	2019.	Versic	on: 5	
Fish LC <sub>50</sub> 96 hou			96 hour	Irs No information		No infori availa	mation able	No information available		-	
Crustacea:	EC <sub>50</sub>	48 hour	'C	lo information vailable	No infori availa	mation able	No inform availat		-		
Algae/aquatic plants		IC <sub>50</sub>	72 hour	c	lo information vailable	No infori availa	mation able	No inform availab		-	
Other organi	sms	-	-	-		-				-	
12.2. Pers	istenco	and degrada	hility								
		radation	onity								
		gradation ha	lf-lives		Method			Evaluatio	on	Note	
Marine water	ine No information available			No information available			e No information availa			-	
Fresh water	esh water No information available			No in	formation availa	able	e No information available			-	
Air	No information available			No information available			No inforr	nation av	vailable	-	
Soil	No information available			No in	formation availa	able	No inforr	nation av	vailable	-	
Biod	legradat	tion									
% Degradati		Time (day	s)		Method		Evaluatio	on	Ν	lote	
No informati available	-	o infor vailable					informati ailable	on	No information available		
12.3. Bioa	iccumula	ative potentia	al								
		efficient: n-oo	tanol/wat								
Value		entration	рН	°C	Method			ation		Note	
No information available		-	- No information available			n No information available		-			
					:				1		
	oncentr	ation factor (					E				
Value Species No information No information			Method			Evaluati	ion	Note No information			

Page 12 of 16

Trading	g nar	ne:		ΡΟΤ	ASSIUM	PER	MANG	ANAT	E, 0.5%	SO	LUTI	J	12 01 10	
Produc	t coc	de: k	(P05-OT-X**		Date	of co	mpilatio	on:	03.06.20	019.		Versic	on: 5	
	Chr	onic ecot	oxicity											
				Expo	Exposure									
	Va	lue	Dose		me	Sp	ecies	Me	thod		Evalua	ation	Note	
<u> </u>		·. c		No		No		No		No	inforr	nation		
Chronic	toxic	tity on fis	h LC <sub>50</sub>	availa		availa	mation able	availa	mation able	ava	ilable		-	
Chronic	tovic	rity on		No		No		No		No	infor	nation		
crustace			EC <sub>50</sub>	inforr availa		infor availa	mation	Intormation			ilable	nation	-	
				avalla	DIE	avalla		avalla	DIE					
12.4.	Mol	oility in se	oil											
		•	edicted distribu	tion in e	nvironme	ental d	compart	ments:	:					_
	No	informati	on available											
	Surf	ace tensi	on:											
	``	Value	°C	Co	oncentrat	ion		Meth	nod			No	ote	
	No		No	No	informati	on	No inf	ormati	on					
		rmation lable	information available	avai	ilable		available				-			
	Ads	orption /	desorption	1										
Transpo	ort		coefficient	lo	g Kow	E١	/aporati	on rate	e l	Meth	od		Note	
		No	y's constant information	No in	formatio	n Ni	o inform	ation	Noir	form	ation			
Soil-wa	ter	availabl		availa			ailable	ation	availa		ation	-		
Water-a	air	No	information	-	formatio		o inform	nation	-	-	nation	_		
water t		availabl		availa			ailable		availa					
Soil-air		No availabl	information e	No in availa	formatioı ble		o inform ⁄ailable	nation	No ir availa		ation	-		
										-				
12.5.	Resu	ults of PB	T and vPvB ass	essment										
	No	informati	on available											
12.6.	Oth	er advers	e effects											
	No	informati	on available											

Page 13 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION							
Product code: KP05	5-OT-X**	Date of compilation:	03.06.2019.	Version:	5			

	N 13 DISPOSAL CONSIDE	KATIONS					
13.1.	Waste treatment method	ds					
13.1.1.	Product/Packaging dispo	ncal.					
13.1.1.							
	Protection.	ne legal person authorized by the Ministry of Environmental and Nature					
13.1.2.	Waste codes/waste desig	gnations according to Law:					
	No information available						
13.1.3.	Waste treatment – releva	ant information:					
	No information available	2					
13.1.4. Sewage disposal – relevant information:							
	Waste must not be dispo	osed of into the sewage system.					
13.1.5.	Other disposal recomme	endations:					
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where					
13.1.6.	Relevant Community pro	ovisions:					
	-						
SECTIO	N 14 TRANSPORT INFORM	MATION					
	Transporting/shipment by	road (ADR)					
	nber:	3082					
UN nun	per shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)					
		9					
UN pro	ort hazard class(es):	9					
UN pro		9 III					
UN pro Transpo Packing							
UN pro Transpo Packing Environ	group:	III					
UN pro Transpo Packing Environ	group: mentally hazardous:	III           -           -           -					
UN pro Transpo Packing Environ	group: mentally hazardous: precautions for user: Transporting/shipment by	III           -           -           -					

Page 14 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION							
Product code:	KP05-OT-X*	Date of compilation: 03.06.2019. Version: 5						
Transport hazard cl	ass(es):	9						
Packing group:		Ш						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Inland wat	erway transpor	t (ADN)						
UN number:		3082						
UN proper shipping	g name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)						
Transport hazard cl	ass(es):	9						
Packing group:		Ш						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Transporti	ng/shipment by	v sea (IMDG)						
UN number:		3082						
UN proper shipping	g name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)						
Transport hazard cl	ass(es):	9						
Packing group:		Ш						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Transporti	ng/shipment by	air (ICAO-TI/IATA-DGR)						
UN number:		3082						
UN proper shipping	g name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)						
Transport hazard cl	ass(es):	9						
Packing group:		ш						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Further information	n: quantit	ubstances when carried in single or combination packagings containing a net y per single or inner packaging of 5 l or less for liquids or having a net mass per r inner packaging of 5 kg or less for solids, are not subject to classification.						

SECTIO	N 15 REGULATORY INFORM	IATION			
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or restrict	tions of use			
	Authorizations:	-			



Page 15 of 16

Trading name:	<b>POTASSIUM PERMANGANATE, 0.5% SOLUTION</b>				
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5	

	Restrictions:	-	
	Other EU regulations:	<ul> <li>EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;</li> <li>The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);</li> <li>EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;</li> <li>EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;</li> <li>EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;</li> <li>Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives</li> </ul>	
	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	t	
	None		

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



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

Page 16 of 16

Tradir	Trading name: <b>POTASSIUM PERMANGANATE, 0.5% SOLUTION</b>					
Product code: KP05-OT-X** Date of compilation: 03.06.2019. Versi				Version: 5		
H: H272 H302 H400 H410 16.6. Training advice:			May intensify fire; oxidiser. Harmful if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.			
16.7.	16.7. Further information:		** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX:
EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



Page 1 of 16

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

SECTI	ON 1. Identification of	the subst	ance/mixture	and of the company/undertaking		
1.1.	Product identifier					
	Trading name:	SULFUF	RIC ACID, 0.5% S	SOLUTION		
	Chemical name:	-				
	Catalogue number:	SK05-C	)T-X**			
1.2.	Relevant identified use	es of the s	substance or mi	xture and uses advised against		
	Uses:		For use with	special staining kits.		
	Uses advised against:		Only the ide	ntified uses are advised.		
	Reason why uses advis against:	sed	device, regis	is intended for use only as an <i>in vitro</i> diagnostic medical tered at the Agency for Medicinal Products and Medical 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	Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-	-		
1.4.	Emergency telephone	number				
	National Protection ar	nd Rescue	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:	Other information:		-		

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance	e or mixture				
2.1.1.	Classification according to Re	egulation (EC) No 1	272/2008 (CLP)			
	Hazard class and cate	egory code:	Hazard statements*:			
	Not identified as hazardous s	substance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazar	d-statements: see S	Section 16			
2.2.	Label elements					
	Product identification:	SULFURIC AC	CID, 0.5% SOLUTION			
	Identification number:	Identification number: -				
	Authorization no.:	Authorization no.: -				
	Hazard pictograms:	-				



Page 2 of 16

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				
	Endocrine Disrupting Prope	rties:			
	No known endocrine disrupting properties				
	No known chaochne alsi apar				

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			

SECTI	TION 4. First aid measures					
4.1.	Description of first aid measures					
	General notes:		-			
	Following inhalation:		Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to- mouth) and contact a physician.			
	Following skin contact: Following eye contact:		Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.			
			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 effe	ects, both acute and delayed			
	Following inhalation:		rding to our findings, chemical, physical and toxicological properties of ubstance have not been entirely tested.			
Following skin contact: According to			rding to our findings, chemical, physical and toxicological properties of ubstance have not been entirely tested.			



Page 3 of 16

Trading name:			SULFURIC ACID, 0.5% SOLUTION					
Produ	uct 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							
	-							

\_\_\_\_\_

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



Page 4 of 16

Trading name:	SULFURIC ACID, 0.5% SOLUTION					
Product code:	SK05-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		
		Min				
Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste materia						

6.3.2.	Cleaning up:	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	
	_	

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



Page 5 of 16

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

SECTION 8. Expos	ure contr	ols/persona	al protec	tion			
8.1. Control pa	rameters	Γ		Γ			
Substance				•	ll exposure limit rt term values	Biological limit values	
				ppm	mg/m <sup>3</sup>		
-		-		-	-	No information available	
Substance - name:							
EC No: -		CAS No:	-				
DNEL							
				Industrial			
Route of		Acute		Acute	Chronic	Chronic	
exposure:	effe	ect local	effe	ect systemic	effect local	effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
Critical physical par	ameters:	solubility, fla	ammabili	ty, corrosivity:	-		
			T	Consumer			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
PNEC							
Environmental prot	ection tar	get		PNEC			
Fresh water				No info	No information available		
Freshwater sedime	nts			No info	No information available		
Marine water				No info	No information available		
Marine sediments				No info	No information available		
Food chain				No info	No information available		
Microorganisms in	sewage tr	eatment		No info	rmation available		
Soil (agricultural)				No info	No information available		
Air				No info	No information available		



Page 6 of 16

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:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to pr exposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	oment				
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection					
	Hand protection:		tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter f	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 prevent exposure:		Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pre exposure:	event	See Section 6			

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



Page 7 of 16

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

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

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



Page 8 of 16

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

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 tar	get organ toxicity – s	single exposure	(STOT SE):			
: •	Specific	effects	Target organ		Note	
Oral exposure: No information available			No information available	-		
Dermal exposure:	No information	available	No information available	-		
Inhalation exposure	: No information	available	No information available	-		
Irritation a	nd corrosion			Math		
	Exposure time	Species	Evaluation	Meth	Note	
Skin irritation:		-	_	od 		
Eye irritation:	-	-	-			
Constitutionali						
Sensitizatio	No information ava	ilabla				
Dermal exposure: Inhalation exposure:	No information ava					
Cumptoms	related to the physic	al chamical an	d tovice le gicel cheve stovist	:		
Oral exposure:	No information a		d toxicological characterist	105		
Dermal exposure:	No information a					
Inhalation exposure						
Eye exposure:	No information a					
Repeated o	lose toxicity (subacut	e, subchronic,	chronic)			



Chronic oral

Chronic dermal

No information available

No information available

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

Page 9 of 16

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

Subacute oralNo information availableNo<	
Subacute dermalNo information availableinformation and availableinformation availableinformation availableinformation availableSubacute inhalation availableNo information informationNo information informationNo information informationNo information informationNo information information-	
Subacute No information information information information -	
Subchronic oralNo information availableN	
Subchronic dermalNo information available <td></td>	
Subchronic inhalationNo information available	
Chronic oral No information available No No No Information available available available No No Information available available Available No No Information available A	
Chronic dermal No information available No No No No information available available available available No No information available available No No information available available No	
Chronic inhalation No information available No No No No information available Availabl	
Specific target organ toxicity – repeated exposure (STOT RE):	
	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         -	

No information available

No information available

-

\_



Page 10 of 16

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

Chronic	inhalation	No informat	ion available	No information available	-
	CMR effects	(carcinogenicity	, mutagenicity, r	eproductive toxicity)	
	Carcinogenic	ity:	Based on av	vailable data, the classification criteria ar	e not met.
	Mutagenicity	in-vitro:	Based on av	vailable data, the classification criteria ar	e not met.
	Genotoxicity:		Based on av	vailable data, the classification criteria ar	e not met.
	Mutagenicity	in-vivo:	Based on av	vailable data, the classification criteria ar	e not met.
	Germ cell mu	itagenicity:	Based on av	vailable data, the classification criteria ar	e not met.
	Reproductive	toxicity:	Based on av	vailable data, the classification criteria ar	e not met.
11.2	Information of	on other hazard	s:		
11.2		srupting proper			
	The substa contain con have endocr according to Commission 2017/2100 c		does not sidered to properties le 57(f) or ulation (EU) Regulation		
11.2.2.	Other inform	ations:			
	-				

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	-	-	-	-	



Page 11 of 16

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

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

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

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

12.3.	Bioaccumulative potent	oaccumulative potential							
	Partition coefficient: n-c	octanol/wa	ater (log	Kow):					
Valu	e Concentration	рН	°C	Method	Evaluation	Note			
-	No information available	-	-	No information available	No information available	-			



Page 12 of 16

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

v	/alue		Species	М	ethod	Evaluation		Note	
No information No informat available available		on No inform available			No information No information availa available		vailable		
	Chronic	ecotoxic	ity						
	Value		Dose	Exposure time	Specie	es Method	Eva	aluation	Note
Chronie	c toxicity c	on fish	LC <sub>50</sub>	No information available	No informat available		No inf availat	ormation ole	-
	c toxicity c ea ( <i>Daphn</i>		EC <sub>50</sub>	No information available	No informat available		No inf availat	ormation ole	-
		•		on in environm	iental com	partments:			
	Known c No infor Surface	rmation a tension:		on in environm		npartments: Method			Note
	No infor Surface t Value No	rmation a tension: e	°C Io		tion	Method			Note
	No infor Surface Value	rmation a tension: e tion ir	available °C	Concentra	tion		ilable	-	Note
	No infor Surface to Value No informat	rmation a tension: e tion ir	°C °C Io nformation	Concentra No informa	tion	Method	ilable		Note
	No infor Surface to Value No informat	tension a tension: e tion ir e a	°C Io nformation vailable	Concentra No informa	tion	Method	ilable		Note
Transpo	No infor Surface to Value No informat available Adsorptiont	tension: e N tion ir e a ion / des	°C Io nformation vailable	Concentra No informa	tion tion N	Method			Note
Transpo Soil-wa	No infor Surface to Value No informat available Adsorption	ion / des A/D coe Henry's	°C Io nformation vailable sorption efficient	Concentra No informa available	tion N	Method o information ava vaporation rate formation		- Method	
	No infor Surface to Value No informat available Adsorption ort ort No ava ava	ion / des A/D coe Henry's	°C Io nformation vailable sorption efficient constant	Concentra No informa available log Kow	tion tion N Ex on No in availa	Method o information ava /aporation rate formation ible formation	No inf availat	- Method formation ole	



Page 13 of 16

Trading	name:	SULFURIC ACID, 0.5% SOLUTION						
Product	t code:	SK05-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			
12.5.	Results of	PBT and vPvB assessm	ont					
12.3.	The substa according	ance/mixture does not	contain components considere or Commission Delegated reg					
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 Commissio Regulation (EU) 2018/605 at levels of 0.1% or higher.								
12.7.	Other adv	erse effects						
	No inform	ation available						
	-	osal considerations						
13.1.	Waste tr	reatment methods						
13.1.1.	Product	/Packaging disposal:						
	Submit f Protectio		l person authorized by the Mir	nistry of Environmer	ntal and Nature			
13.1.2.	Waste co	odes/waste designatio	ns according to Law:					
		mation available	5					
13.1.3.		reatment – relevant info	ormation:					
	No infor	mation available						
13.1.4.	Sewage	disposal – relevant info	ormation:					
	Waste m	nust not be disposed o	f into the sewage system.					
13.1.5.	Other di	sposal recommendation	ons:					
	authoriz the pack	ed by the ministry in c	s remains into the sewage syst harge. Do not dispose of the p s authorized by the ministry in	ackaging into the s	ewage system. Submit			
13.1.6.	Relevant	t Community provision	s:					



Page 14 of 16

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

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



-

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

Page 15 of 16

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

Further information:

15.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or rest	rictions of use				
	Authorizations: -					
	Restrictions:	-				
	Other EU regulations:	<ul> <li>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;</li> <li>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 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;</li> <li>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;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>				
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)					
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessme	ent				
	None					

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



Page 16 of 16

			Page 16 of 16				
Tradin	ng name:	ame: SULFURIC ACID, 0.5% SOLUTION					
Produ	ct code:	SK05-OT-X**	Date of compilation: 21 Dec 2022 Version: 4				
16.2.	Abbreviati	ons 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 literate source of e	ure references and data:	-				
16.4.	Classificati 1272/2008	•	used to derive the classification for mixture according to Regulation (EC)				
Classifi	ication		Classification procedure				
-			-				
16.5.	Relevant H	l statements (numb	er and full text)				
	H: 314		Causes severe skin burns and eye damage.				
16.6.	Training a	dvice:	-				
16.7.	Further inf	ormation:	<ul> <li>** "X" in the product code marks different volumes (different packagings of the product)</li> <li>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.</li> </ul>				

#### ANNEX:

\_

Exposure scenario resulting to Chemical safety assessment