

PARALDEHYDE FUCHSIN KIT

The kit contains:

Fast Green F.C.F. reagent Histanol 70 Nuclear Fast Red (Kernechtrot) reagent Oxalic acid, 1% solution Paraldehyde Fuchsin reagent Potassium permanganate, 0.5% solution Sulfuric acid, 0.5% solution



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Trading name:	FAST GREEN F.C.F. REAGENT				
Product code:	FGR-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	FAST GREE	N F.C.F. RE	AGENT	
	Chemical name:	-	-		
	Catalogue number:	FGR-OT-X*	*		
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against	
	Uses:			stain used with Masson-Goldner Trichrome and Paraldehyde staining kits.	
	Uses advised against:	Uses advised against:		e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			-	
	Other information:			-	

SECTIC	N 2. Hazards identification			
2.1	Classification of the substand	ce or mixture		
2.1.1	Classification according to R	egulation (EC) No 12	272/2008 (CLP)	
	Hazard class and cat	egory code:	Hazard statements*:	
	Not identified as hazardous	substance.	-	
2.1.2.	Additional information			
	-			
*For ful	I text of Hazard- and EU Haza	rd-statements: see S	SECTION 16	
2.2	Label elements			
	Product identification:	FAST GREEN F.C	C.F. REAGENT	
	Identification number:	-		
	Authorization number:	-		



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	Hazard pictograms:	-
	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	_
2.3	Other hazards	
	The product has no other know	vn specific hazards for human or environment.
	Results of PBT and vPvB assess PBT or vPvB substances.	ment: Based on available data, the product does not contain any
	Endocrine disrupting property:	Based on available data, does not contain endocrine disruptors.

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	-	

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



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

SECTI	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	water spray, dry powder, CO2 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 c	ompressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated firefighting water separately. Do not extinguishing media.			

SECTIO	ON 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.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in ca (see Section 8).	se of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, dr Protection and Rescue Directora	ainage system and waterways. In case of large spillage contact National ate (NPRD) on 112.			
6.3	Methods and material for conta	inment and cleaning up			



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6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and 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	ECTION 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation	ו:	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. Tho	oroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incomp	oatibilities				
	Technical measures and storage conditions:	well ventila	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			



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

SECTION 8. Expos	ure contre	ols/perso	onal pr	otection					
8.1 Control pa	arameters								
Substance			CAS N	0	е	expo lues, v	upational sure limit /short term ralues mg/m ³		Biological limit values
-			_		-	•	-		-
						1		•	
Substance name:	-								
EC No:	-	CAS No	:	-					
DNEL									
				In	dustria	ı			
Route of exposure:	Acı effect			Acute ct systemi	с		Chronic effect loca		Chronic effect systemic
Oral	-		-		-			-	
Inhalation	-		-		-				-
Dermal	-		-		-				-
Critical physical pai	rameters: s	solubility,	flamm	ability, co	rrosivity	y:	-		
				Co	onsume	er			
Route of exposure:	Act effect		effe	Acute ct systemi	c		Chronic effect loca		Chronic effect systemic
Oral	-		-		-				-
Inhalation	-		-		-				-
Dermal	-		-		-				-
PNEC									
Environmental prot	ection tar	get			PNEC				
Fresh water					no information available				
Freshwater sedime	nts				no inf	orm	ation availa	ble	



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

8.2	Exposure controls				
8.2.1.	Appropriate engineering contr	ols			
	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 pre exposure:	event	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment	t			
8.2.2.1.	Eye and face protection:	levels o	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection				
	Hand protection:		otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
	Other skin protection:	footwe entire impern	every day work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of 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	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure contro	ols			



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bstance/mixture related easures to prevent exposure:	See Section 6
uctural measures to prevent posure:	Use modern equipment.
 ganisational measures to event exposure:	Adapt the work process to the required working conditions of the workplace.
chnical measures to prevent posure:	See Section 6

.1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	green	No information available
	Odour/odour threshold:	mild acetic acid like/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	potentiometric measurement
	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
2	Other information		

SECTION 10. Stability and reactivity



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10.1	Reactivity:	See subsections 10.3 through 10.5.
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No dangerous reactions known.
10.4	Conditions to avoid:	No information available
10.5	Incompatible materials:	No information available
10.6	Hazardous decomposition products:	No information available

	11. Toxicol		rmation	d in Regu	lation (EC) No	1272/20	108			
	cute toxicity			amrege		5 127272				
Route of exposure:		Method	Species	Do	ose LD ₅₀ /LC ₅₀ ATE _{mix}	or	Exposure ti	me	Results	
Oral:	Dral: -		No informatic available	on	-		informatio iilable	n	_	
Dermal:		-	No informatic available	on	-		information ilable		-	
- Inhalation:		-	No informatic available	on	-		informatio iilable	n	-	
S	pecific targe	et organ to	xicity – single ex	(posure (S	STOT SE):					
E	Specific effects				Target organ			Note		
Oral:	٦	No informa ⁻	tion available		No information available			-		
Dermal:	1	No informa ⁻	tion available		No information	-				
Inhalation	: ۱	No informa	tion available		No information available			-		
Α	spiration ha	zard:		No infor	mation availa	ble.				
lr	ritation and	corrosion								
		Expo	osure time	Spec	ies Eva	luation	Method		Note	
Skin corrosion/	'irritation:	-		-	-		-	-		
Serious ey damage/ir		-		-	-		-	-		
S	ensitization									
Skin sensit	tization:	-								



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Respiratory sensi	tization: -									
Sympto	ms related to the	physical, chemic	al and toxicolog	jical cha	aracterist	ics				
Oral exposure:	No inform	nation available.								
Dermal exposure	: No inform	nation available.								
Inhalation expos	ure: No inform	nation available.								
Eye exposure:	No inform	ation available.								
Repeate	d dose toxicity (subacute, subchro	onic, chronic)							
	Dose	Exposure time	Species	Meth	od	Evaluation	Note			
Subacute oral	No informatio available	on No information available	No information available	No infor availa	mation able	No information - available				
Subacute dermal	No informatio available	n No information available	No information available	No information available		No information available	-			
Subacute inhalation	No informatic available	n No information available	No information available	No information available		No information available	-			
Subchronic oral	No informatio available	n No information available	No information available	No information available		No information available	-			
Subchronic dermal	No informatio available	n No information available	No information available	No infor availa	mation able	No information available	-			
Subchronic inhalation	No informatio available	n No information available	No information available	No infor availa	mation able	No information available	-			
Chronic oral	No informatio available	No information available	No information available	No infor availa	mation able	No information available	-			
Chronic dermal	No informatio available	n No information available	No information available	No infor availa	mation able	No information available	-			
Chronic inhalation	No informatio available	n No information available	No information available	No infor availa	mation able	No information available	-			
Specific	target organ tox	icity – repeated e	exposure (STOT	RE):						



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		Specific effects	Target organ	Note			
Subacut	te oral	No information available	No information available	-			
Subacut	te dermal	No information available	No information available	-			
Subacut	te inhalation	No information available	No information available	-			
Subchro	onic oral	No information available	No information available	-			
Subchro	onic dermal	No information available	No information available	-			
Subchro	onic inhalation	No information available	No information available	-			
Chronic	c oral	No information available	No information available	-			
Chronic	dermal	No information available	No information available	-			
Chronic	inhalation	No information available	No information available	-			
	CMR effects (c	arcinogenicity; mutagenicity; re	productive toxicity)				
	Carcinogenicit		Based on available data, the classification criteria are not met.				
	Mutagenicity <i>in vitro</i> : Genotoxicity:		Based on available data, the classification criteria are not met.Based on available data, the classification criteria are not met.				
	Mutagenicity i	n vivo:	 Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. 				
	Germ cell muta	agenicity:					
	Reproductive t	coxicity:					
	Summary of properties:	evaluation of the CMR	Based on available data, the classificati met.	ion criteria are not			
	1						
11.2.		n other hazards:					
11.2.1.		upting properties:					
	Based on avai endocrine disr	ilable data, does not contain uptors.	-				
11.2.2.	Other informat	tions					

SECTION 12. Ecological information						
12.1	Toxicity					



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Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	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 ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2 Persistence and degradability

12.2 1 01515				
Abioti	c 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	-
Biode	gradation			
% Degradati	on Time (days)	Method	Evaluation	Note



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	No information available No information available				No information available		No information available						
12.3 Valu		-	artition coef	ficient (oH	log Kow °C		ethod		Evalua	ation		Note	
-	-		-			-			-		-		
	Bioconcen	tration	factor (BCF)									
Bioconcentration factor (BCF) Value Species			Method			Evaluation			Note				
No information No		No availa	inforr			No information available			No information available		-		
	Chronic ec	otoxici	tv										
	Value		Dose		osure ime	Spe	ecies	Ν	/lethod	Eval	uation	Note	9
Chronic	toxicity on	fish	LC ₅₀	1			mation able	ion information inf		No inforn availa	nation ble	-	
	toxicity on ea (<i>Daphnia</i>)	EC ₅₀	No infor availa	mation able	No inforr availa	mation able		ormation iilable	No information - available		-	
12.4	Mobility in	soil											
12.4			ed distribut	ion in e	nvironm	nental c	ompar	tmen	ts:				
	No inform	-					Jompar	men					
	Surface ter												
	Value		°C	C	oncentra	ation		M	ethod			Note	
	No informatio available			No	informa iilable		No in availa	forma		-			

ΛΕΕΤΎ ΠΛΤΛ CHEET

BIC	OG	iNC		ccording to R	egulation (EC) No. Regulation (EU) No.	o. 2020/878	age 13 of 17
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					•		
	Ads	-	/ desorption				
Transpo	ort		<pre>/D coefficient nry's constant</pre>	log Kow	Evaporation rate	Method	Note
Soil-wa	ter	No availal	information ble	No information available	No information available	No information available	-
Wator-air		No availal	information ble	No information available	No information available	No information available	-
Soil-air	Soil-air No ava		information ble	No information available	No information available	No information available	-
	,						
12.5			PBT and vPvB asses				
	Base	ed on a	vailable data, the p	product does no	ot contain any PBT or	vPvB substances.	
12.6.			disrupting properti				
	Base	ed on a	vailable data, does	not contain en	docrine disruptors.		
12.7.			rse effects				
	No	informa	tion available				
			sal consideration	S			
13.1	W	aste tre	eatment methods				
13.1.1.	Pr	oduct/l	Packaging disposa	l:			
		ubmit fo	•	egal person aut	horized by the Minist	ry of Environmental	and Nature
13.1.2.	W	aste co	des/waste designa	ations according	to Law:		
		5 01 10* Ibstance		ontains residual	hazardous substance	es or is contaminate	d with hazardous

13.1.3.

Waste treatment – relevant information:

No information available



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

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13.1.4.	Sewage disposal – releva	ant information:				
	Waste must not be dispo	Waste must not be disposed of into the sewage system.				
13.1.5.	Other disposal recomme	and ations:				
15.1.5.	•					
	authorized by the minist	oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge.				
13.1.6.	Relevant Community pro	ovisions:				
	-					
SECTIO	N 14. Transport informati	on				
	Transporting/shipment by	road (ADR)				
UN num	ıber:	Not subject to transport regulations				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environ	mentally hazardous:	-				
Special precautions for user:		-				
	Transporting/shipment by	rail (RID)				
UN number:		Not subject to transport regulations				
UN proper shipping name:		-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environ	mentally hazardous:	-				
Special	precautions for user:	-				
	Inland waterway transport	(ADN)				
UN num	ıber:	Not subject to transport regulations				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environ	mentally hazardous:	-				
Special	precautions for user:	-				
	Transporting/shipment by	sea (IMDG)				
UN num	ıber:	Not subject to transport regulations				
UN pror	per shipping name:	_				



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

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



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Irading name:		REAGENT			
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	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
	Information according ² guideline)	dangerous substances, mixtures and articles (Annex XVII); 1999/13/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 assess	nent
	None	

SECTIO	SECTION 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 			



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

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Trading name:	FAST GREEN F.C.F. REAGENT				
Product code:	FGR-OT-X**	Date of compilation:	23 Dec 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	Classification Classification procedure			
-		-		
16.5.	Relevant H statements (number and full text)			
	H: -	-		
16.6.	Training advice:	-		
		** "X" in the product code marks different volumes (different packagings of the product)		
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:	HISTANOL 70						
Product code:	H70-X**	Revision date:	05 Dec 2022	Version:	6		

1.1	Product identifier					
	Trading name:	HISTANOL	HISTANOL 70			
	Chemical name:	Ethyl alcohol				
	Catalogue number:	H70-X**				
1.2	Relevant identified us	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:	Uses:		in histocytology and cytology sample processing.		
	Uses advised against:		Only the comsum	e identified uses are advised. Unsuitable for human aption.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:	Telephone number:		+385 1 2409997		
	Telefax.:	Telefax.:		+385 1 2404039		
	e-mail of competent p	person:	msds@biognost.hr			
	National contact:	National contact:				
1.4	Emergency telephone	number				
	National Protection and Rescue Dire		ectorate [.]	rate: 112		
	National Protection a		cetorate.			
	National Protection an Medical information:			+385 1 2348 342		

SECTIC	N 2. Hazards identification			
2.1	Classification of the substance or mixture			
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)			
	Hazard class and category code: Hazard statements*:			
	Flam. Liq. 2		H225	
2.1.2.	Additional information			
	-			
*For fu	ll text of Hazard- and EU Hazar	d-statements: see S	ECTION 16	
2.2	Label elements			
	Product identification:	HISTANOL 70		
	Identification number:	-		
	Authorization number:	-		



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Trading name:	HISTANOL 70				
Product code:	H70-X**	Revision date:	05 Dec 2022	Version:	6

	Hazard pictograms:	GHS02	
	Signal word:	Danger	
	Hazard statements:	H225 Highly flammable liquid and vapor.	
	Precautionary statements:	 P210 Keep away from heat, hot sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P403+P235 Store in a well-ventilated place. Keep cool. 	
	Supplemetal hazard information (EU):	-	
2.3	Other hazards		
	The product has no other know	n specific hazards for human or environment.	
	Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.		
	Endocrine disrupting property:	Based on available data, does not contain endocrine disruptors.	

SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	~ 70%	ethanol	Flam. Liq. 2; H225		

SECTI	SECTION 4. First aid measures				
4.1	Description of first aid measure	S			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificial respiration. In case of complaints call a physician.			
	Following skin contact:	Remove the contaminated clothes. Wash the skin surface under plenty of running water. Seek medical assistance if the symptoms of irritation remain.			



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Trading name:	HISTANOL 70				
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	Following eye contact:	In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for at least 10 minutes). If the symptoms remain, immediately call in ophthalmologist.		
	Following ingestion:	Place the victim in a comfortable position. Rinse the mouth with clean water. If the victim is conscious induce vomiting.Do not give the victim anything orally, and do not induce vomiting if the victim is unconscious or suffers from convulsions.		
	Self-protection of the first aider:	-		
4.2	Most important symptoms and effects, both acute and delayed			
	Following inhalation:	Inhalation of larger quantities may affect the central nervous system.		
	Following skin contact:	Prolonged or repeated dermal contact may cause the defatting and dryness of the skin.		
	Following eye contact:	May irritate the eyes.		
	Following ingestion:	Ingestion of larger quantities may affect the central nervous system.		
4.3	Indication of any immediate medical attention and special treatment needed If larger quantities have entered the body, obtain medical treatment (gastric lavage, activated carbon).			

SECTI	ON 5. Firefighting measures			
5.1	Extinguishing media			
	Suitable extinguishing media:	Extinguishing powder, alcohol-resistant foam, water, carbon-dioxide.		
	Unsuitable extinguishing media:	Water with full jet.		
5.2	Special hazards arising from the su	ibstance or mixture		
	Hazardous combustion products:	Highly flammable liquid and vapour. In case of fire, smoke, and other combustion products (carbon monoxide, carbon dioxide) may be formed, the inhalation of such combustion products can have serious adverse effects on health. Vapours may form an explosive mix with air. Vapours may be ignited by open flames, sparks, electrical equipment, or static charge. Vapours may travel to great distances, ignite in contact with ignition sources and flash back to the primer source (container). Vapours of ethyl alcohol mix greatly with air and may form an explosive mixture. Air containing $3.3 - 19$ % ethyl alcohol vapours may explode in contact with ignition sources. Diluting the mixture with large amounts of water results in the loss of its flammability (around 10% concentration of ethyl alcohol).		
5.3	Advice for firefighters			
		Wear full protective clothing and self-contained breathing apparatus. Cool the fire affected containers with water spray. Use water spray to dissipate alcohol vapours.		
5.4	Additional information			
	-			



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Trading name:	HISTANOL 70				
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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.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	ventilation. Vapours may accur	nd clothing and inhaling gases, vapours and aerosols. Ensure adequate nulate at floor level in low and confined spaces. Remove all heat, ignition chines. Ignition spark arrestor must not be operated in the danger area. Use the risk of slipping.			
6.2	Environmental precautions:				
	Dispose of the spillage and the resulting waste according to the applicable environmental regulation not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Not respective authorities in accordance with local law in the case of environmental pollution immedia				
6.3	Methods and material for cont	ainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Collect the spilled product with inert, non-combustible absorbent (esand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. During the collection, placement, disposal of the waste, wear appropriatindividual protective equipment. Flush the remains with plenty of water. The product loses its flammabil if diluted with significant amount of water (approx. 10% solution).				
6.3.3.	()ther intermation:	Secure proper ventilation. Do not use incompatible materials (see Section 10).			
6.4	Reference to other sections				
	See Section 7 for information of	See Section 7 for information on safe handling.			
	See Section 8 for information of	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal information.				

SECTIC	SECTION 7. Handling and storage		
7.1	Precautions for safe handling		
7.1.1.	Protection measures		



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Trading name:	HISTANOL 70				
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	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use non-sparkling tools and equipment.		
	Measures to prevent aerosol and dust generatio	n:	Ensure adequate 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:	away from unopened	well-ventilated place, protected from sunlight, a sources of heat and ignition, in its original, and hermetically sealed packaging, away lizing agents, food, feed and articles of ion.		
	Packaging materials:	Manufactu	nufacturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.		
	Advices for storage equipment:	The storage must be made of hard material; floors be resistant to chemicals. There must be no drain directly leads into sewage system. Secure p ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage roo and do not use empty containers for storing oth chemicals. Do not store with incompatible materials (s Section 10).			
7.3	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			

SECTION 8. Exposure controls/personal protection									
8.1 Control parameters									
Substance	CAS No		exposure limit t term values	Biological limit values					
		ppm	mg/m ³						
Ethanol	64-17-5	1000/-	1900/-	-					
Substance name: -									



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Trading nar	ne:	HISTANOL 70							
Product cod	de:	H70-X**	•	Revisi	on date:	05 Dec 2022	Version:	6	
EC No:		-	CAS No	: -					
DNEL									
				In	dustrial				
Route of		Acu		Acute		Chronic	Chronic		
exposure:		effect	local	effect systemi	с	effect local	effect systemic		
Oral	-	1000 m.a	/m ³	-	-		-		
Inhalation		1900 mg (ethanol)		-	-		380 mg/m ³ (ethanol)		
Dermal	-	-		-	-		343 mg/kg (ethanol)		
Critical physi	cal para	meters: s	olubility,	flammability, co	rrosivity:	-			
		1		Co	nsumer				
Route of			ute	Acute		Chronic	Chronic		
exposure:		effec	t local	effect systemi	с	effect local	effect systemic		
Oral		- 950 m	a /m ³	-	-		87 mg/kg bw/day (eth	anol)	
Inhalation		(ethan	-	-	-		114 mg/m ³ (ethanol)		
Dermal		-		-	-		206 mg/kg (ethanol)		
PNEC									
Environment	al prote	ction targ	get		PNEC				
Fresh water					0.96 mg/l (ethanol)				
Freshwater s	ediment	S			3.6 mg/kg (ethanol)				
Marine wate					0.79 mg/l (ethanol)				
Marine sedin	nents				2.9 mg/kg (ethanol)				
Food chain					380-720 mg/kg (ethanol)				
Microorganis		ewage tre	eatment			(ethanol)			
Soil (agricult	ural)				0.63 mg/kg (ethanol)				
Air					no information available				
8.2	Exposur	e control	S						
8.2.1.	Appropr	riate eng	ineering	controls					
				d measures to dentified uses:	concentr concentr existing	ation limit it is the ation levels down to	aterial with no contro e employer's duty to k o a minimum achievable ological means, where o harm to workers.	keep e by	
	Structur exposur		res to pre	event	In accord	lance with Section 7.			



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Trading name:	HISTANOL 70							
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Orga	anisational measures	to prevent	Organizatio	on of work in order to r	educe other worke	er's		

	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	xposure:	In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Use according to general application methods and with adequate ventilation.		
	· · · · · · · · · · · · · · · · · · ·		Use non-sparkling ventilation system.		
			Provide appropriate personal protective equipment, safety shower and eye-wash station.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Use appropriate, chemical-proof protective glasses/face shield ISO 16321-1:2022, EN 166).			
8.2.2.2.	Skin protection				
	Hand protection:	Use appropriate, chemical-resistant protective gloves (EN 374			
	Other skin protection:	Use ap	propriate protective clothing.		
8.2.2.3.	Respiratory protection:	concer in the contac	e of normal usage and ventilation, it is not necessary. If ntration of ethyl alcohol exceeds occupational exposure limits air, use a self-contained breathing apparatus. For short t and if the oxygen content of the air is greater than 18 %, use ective gas mask with filter A (EN 14837/A1).		
8.2.2.4.	Thermal hazards:	No the	rmal hazards known.		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		
	Structural measures to prevent exposure:	t Use modern equipment.			
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.		
	Technical measures to prevent exposure:	See Se	ction 6		

SECTI	SECTION 9. Physical and chemical properties									
9.1	Information on basic physical and chemical properties									
		Method								
	Physical state:	liquid	No information available							
	Colour:	colourless	No information available							
	Odour/odour threshold:	ethanol like/no information available	No information available							
	Melting point / freezing point:	No information available	No information available							



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	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:	lower: 3.3 Vol % upper: 19 Vol %	No information available						
	Flash point:	21 °C	No information available						
	Auto-ignition temperature:	No information available	No information available						
	Decomposition temperature:	No information available	No information available						
	pH:	No information available	No information available						
	Kinematic viscosity:	No information available	No information available						
	Solubility:	in water completely miscible	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:	~ 0.867 (20°C)	No information available						
	Relative vapour density:	No information available	No information available						
	Particle characteristics:	No information available	No information available						
9.2	Other information	Other information							
	Explosive properties: the vapours f	rom ethyl alcohol form an expl	osive mixture with air						

SECTI	SECTION 10. Stability and reactivity							
10.1	Reactivity:	See Section 10.5.						
10.2	Chemical stability:	Stable within normal temperature and general work conditions.						
10.3	Possibility of hazardous reactions:	See Section 10.5.						
10.4	Conditions to avoid:	Keep away from heat, sparks, open flames, strong heating and ignition sources. No smoking.						
10.5	Incompatible materials:	Strong oxidizing agents (inorganic strong acid, nitric acid, perchlorates, peroxy compounds, perchloric acid, permanganates etc.), alkali metals, alkali earth metals.						
10.6	Hazardous decomposition products:	Carbon monoxide and carbon dioxide.						

SECTIO	SECTION 11. Toxicological information										
11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008										
	Acute toxicity:										
	Route of exposure: Method Species Dose LD ₅₀ /LC ₅₀ or ATE _{mix} Exposure time Results										



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Trading name:				HIST	ANOL 70				
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Oral:	-	rat (ethan	ol)	LD ₅	0	-	7.0	60 mg/	kg
Dermal:	-	rabbit (etha	nol)	LD ₅	0	-	>20).000 m	g/l
Inhalation:	-	rat (ethan	ol)	LC ₅	0	4 h	>8	.000 mg	g/l
Spacific to	araot organ to	oxicity – single e	vposuro		•				
Specific to		Specific effects	exposure		Target orga	n	No	te	
Oral:		ation available		No inf	ormation avail				
Dermal:		ation available			ormation avail				
Inhalation:		ation available			ormation avail		_		
Aspiratior	hazard:		No info	ormation a	available.				
Irritation a	and corrosion								
Ē	Exp	osure time	Sp	ecies	Evaluation	Method	N	ote	
Skin corrosion/irritatior	· -		-		-	-	-		
Serious eye	1.								
damage/irritation	-		-		-	-	-		
Sensitizat									
Skin sensitization:		o information a							
Respiratory sensiti	zation: N	o information a	ivailable.						
Sumatam	c valated to th	a physical sha	mical and	dtovicolo	nical character	istics			
Symptom		ne physical, che ion of great			-		kenness	euphor	ia
Oral exposure:	unconsc	iousness and al g may occur. Re	cohol po	isoning. Ir	case of swallo	wing great q	uantities, na	ausea a	
Dermal exposure:	After pr cracking	olonged or re of skin.	peated e	exposure	symptoms ma	iy include: c	lefatting, d	ryness	an
Inhalation exposur	e: Inhalatic membra	on of great quan ines.	ntities ma	y cause di	zziness, eupho	ria and mild i	rritation of t	he muc	:ou
Eye exposure:	May cau	se irritation and	d redness	5.					
Reneated	dose toxicity	(subacute, sube	chronic (-hronic)					
Nepealeu	Dose	Exposure			Method	Evaluati	00	Note	
	DOSe	time	spe	ecies	wiethou	Evaluali		NOLE	



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Trading name:	HISTANOL 70								
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Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

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



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	CMR effects (carcinogenicity; mutagenicit	ty; re	eproductive toxicity)					
	Carcinogenicity:	Bas	sed on available data, the classification criteria are not met.					
	Mutagenicity in vitro:	Bas	sed on available data, the classification criteria are not met.					
	Genotoxicity:	Bas	sed on available data, the classification criteria are not met.					
	Mutagenicity in vivo:	Bas	sed on available data, the classification criteria are not met.					
	Germ cell mutagenicity:	Bas	sed on available data, the classification criteria are not met.					
	Reproductive toxicity: Based on available data, the classification criteria are not							
	Summary of evaluation of the C properties:	MR	Based on available data, the classification criteria are not met.					
11.2	Information on other hazards:							
11.2.1.	Endocrine disrupting properties:							
	Based on available data, does not contendocrine disruptors.	tain						
11.2.2.	Other informations:							
	-							

SECTION 12. Ecologie	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	golden orf	No information available	8.140 mg/l /48 h (ethanol)	-
Crustacea:	EC ₅₀	48 hours	daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants	IC ₅₀	4 days	algae	No information available	5.000 mg/l / 7d (ethanol)	-
Other organisms	_	-	_	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-



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Crustacea: EC ₅₀ 48 hours No information available											
Crustacea: EC ₃₀ 48 hours No information available information available No information	6	Version:)22	05 Dec 20	vision date:	Re	roduct code: H70-X**		Pro		
Algae/aquatic plants IC ₅₀ 72 hours No information available - </td <td></td> <td>_</td> <td></td> <td>information</td> <td></td> <td></td> <td>48 hours</td> <td>EC₅₀</td> <td></td> <td>stacea:</td> <td>Cru</td>		_		information			48 hours	EC ₅₀		stacea:	Cru
12.2 Persistence and degradability Abiotic degradation Degradation half-lives Method Evaluation Note Marine water No information available No information available No information available No information available - Fresh water No information available No information available No information available No information available - Air No information available No information available No information available No information available - Soil No information available No information available No information available - - Biodegradation Time (days) Method Evaluation Note No information available No information available No information available - % Degradation Time (days) Method Evaluation Note information available No information available No information available No information available - - % Degradation Time (days) Method Evaluation Note available No information available Available Available -		_		information			72 hours	IC ₅₀	lants	ae/aquatic pl	Alg
Abiotic degradation Degradation half-lives Method Evaluation Note Marine water No information available No information available No information available No information available - Fresh water No information available No information available No information available No information available - Air No information available No information available No information available - - Soil No information available No information available No information available - - Soil No information available No information available No information available - - Soil No information available No information available No information available - - Biodegradation Time (days) Method Evaluation No information available - No information available No information available No information available No information available - % Degradation Time (days) Method Evaluation No information available - No information available - - -		-	-	-		-	-	-	S	er organisms	Oth
Abiotic degradation Degradation half-lives Method Evaluation Note Marine water No information available No information available No information available No information available - Fresh water No information available No information available No information available No information available - Air No information available No information available No information available - - Soil No information available No information available No information available - - Soil No information available No information available No information available - - Soil No information available No information available No information available - - Biodegradation Time (days) Method Evaluation No information available - No information available No information available No information available No information available - % Degradation Time (days) Method Evaluation No information available - No information available - - -							bility	nd degrada	ence ai	2 Persiste	12.2
Degradation half-lives Method Evaluation Note Marine water No information available - Fresh water No information available No information available No information available No information available - Air No information available No information available No information available No information available - Soil No information available No information available No information available - Soil No information available No information available No information available - % Degradation Time (days) Method Evaluation No information available No information available No information available No information available No information available % Degradation Time (days) Method Evaluation No information available No information available No information available No information available No information available No information available No information a							7	-			
Marine water No information available No information available No information available No information available - Fresh water No information available No information available No information available No information available - Air No information available No information available No information available No information available - Soil No information available No information available No information available No information available - Soil No information available No information available No information available No information available - Biodegradation Time (days) Method Evaluation No information available No information available No information available No information available No information available No information available - % Degradation Time (days) Method Evaluation No information available No information available No information available No information available No information available Value No Information coefficient (log Kow) Value Concentration PH °C Metho		Note	n	Evaluatio	Method		nalf-lives				
Fresh water No information available available available available available available available available - Air No information available - <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td colspan="2"></td> <td>rine water</td> <td>Mai</td>		-							rine water	Mai	
Air No information available available available available Soil No information available No information available No information available - Biodegradation Time (days) Method Evaluation Note % Degradation Time (days) Method Evaluation Note No information available No information available No information available Note % Degradation Time (days) Method Evaluation Note No information available 12.3 Bioaccumulative potential Octanol-water partition coefficient (log Kow) Value Concentration pH °C Method Evaluation Note Log Pow: ~ Concentration pH °C Method Evaluation Note		-					No information available		sh water	Fres	
Soil No information available available available available Biodegradation % Degradation % Degradation No information available No information available available No information available available No information available No information available available No information available available available No information available available available No information available		-					o information available		No ir		Air
% Degradation Time (days) Method Evaluation Note No information available 12.3 Bioaccumulative potential Octanol-water partition coefficient (log Kow) Octanol pH °C Method Evaluation Note Value Concentration pH °C Method Evaluation Note		-					No information available		No ir		Soil
No information available No information available No information available No information available No information available 12.3 Bioaccumulative potential Octanol-water partition coefficient (log Kow) Value Concentration pH °C Method Evaluation Note Log Pow: ~ Image: No information available Image: No information available Image: No information available No information available								on	radatio	Biodegr	
available availa		Note	on	Evaluatio	Method		(days)	Time (n	6 Degradation	%
Octanol-water partition coefficient (log Kow) Value Concentration pH °C Method Evaluation Note Log Pow: ~							nformation				
Octanol-water partition coefficient (log Kow) Value Concentration pH °C Method Evaluation Note Log Pow: ~											
Value Concentration pH °C Method Evaluation Note Log Pow: ~							al	ive potentia	umulat	Bioaccu	12.3
Log Pow: ~ The product of					ow)	log Ko	coefficient (er partition o	l-wate	Octanol	
		Note	ation	Evalu	Method	°C	Value Concentration pH				
		The product do not bioaccumul		-	-	-	_		-		
Bioconcentration factor (BCF)							(BCF)	tion factor (centra	Bioconc	
ValueSpeciesMethodEvaluationNote		Note	ion	Evaluat	Method						



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Tradir	ng name:						HISTA	NOL 70					
Produ	ict code:	H70-	-X**		Revis	ion da	ate:	05 D	ec 202	2		Version: 6	
BCF: 0	.66	No availa	inform ble	ation	No info available		n	No info availab	ormatio le	n	-		
	Chronic	ecotoxici	ity					;			1		
	Value		Dose		osure ime	Spe	ecies	Metł	nod	Evalu	uation	Note	
Chron	ic toxicity c	on fish	LC ₅₀	No infor availa	mation able	No inforr availa	nation ble	No inform availab		No inform availat		-	
	ic toxicity c cea (<i>Daphr</i>		EC ₅₀	No infor availa	mation able	No inforr availa	nation ble	No inform availab		No inform availat		-	
12.4	Mobility	in soil											
			ted distributi	on in e	environm	ental c	ompart	ments:					
		rmation a											
	Surface												
	Valu	e	°C	С	oncentrat	tion		Metho	bd			Note	
	No informa available		o formation vailable		informat ailable	ion	No inf availal	ormation	n	-			
	Adsorpt	ion / des	orption										
Transp		A/D co	oefficient s constant	lc	og Kow	Εv	vaporati	on rate	N	/lethod		Note	
Soil-w	ater	No i available	nformation e	No ir availa	nformatio able		o inform ailable	nation	No in availa	formati ble	on	-	
Water	-air	No i available	nformation e	No ir availa	nformatio able		o inform ailable	nation	No in availa	formati ble	on	-	
Soil-ai	r	No i available	nformation	No ir availa	nformatio able		o inform ailable	nation	No in availa	formati ble	on	-	
12.5	Results	of PBT an	id vPvB asses	ssment									
	Based o	n availabl	le data, the p	produc	t does no	ot cont	ain any	PBT or v	PvB sub	ostance	s.		



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Trading name:	HISTANOL 70						
Product code:	H70-X**	Revision date:	05 Dec 2022	Version:	6		

12.6. Endocrine disrupting properties							
Based on available data, does not contain endocrine disruptors.	Based on available data, does not contain endocrine disruptors.						
12.7. Other adverse effects							
Do not let the product or its residues reach sewer system, waterways and soil.							
SECTION 13. Disposal considerations							
13.1 Waste treatment methods							
13.1.1. Product/Packaging disposal:							
Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.							
13.1.2. Waste codes/waste designations according to Law:							
Packaging that contains residual hazardous substances or is contaminated with hazardous substan	Packaging that contains residual hazardous substances or is contaminated with hazardous substances						
13.1.3. Waste treatment – relevant information:							
No information available							
13.1.4. Sewage disposal – relevant information:							
Waste must not be disposed of into the sewage system.							
13.1.5. Other disposal recommendations:							
Do not dispose of the product's remains into the sewage system. Submit the remains to the colle authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. So the packaging to the collectors authorized by the ministry in charge. Unused product residues m burnt.	bmit						
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: 1170							
UN proper shipping name: Ethanol solution							
Transport hazard class(es): 3							
Packing group: II							



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Trading name:			HIST	NOL 70		
Product code:	H70-X**		Revision date:	05 Dec 2022	Version:	6
	1			1		
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Transporti	ng/shipment by rail (RI	ID)				
UN number:		117	0			
UN proper shipping	g name:	Eth	anol solution			
Transport hazard cl	ass(es):	3				
Packing group:		II				
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Inland wat	erway transport (ADN)					
UN number:		117	0			
UN proper shipping	g name:	Eth	anol solution			
Transport hazard cl	ass(es):	3				
Packing group:		II				
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Transporti	ng/shipment by sea (IN	/IDG)				
UN number:		117	0			
UN proper shipping	g name:	Eth	anol solution			
Transport hazard cl	ass(es):	3				
Packing group:		11				
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Transport in bulk a of MARPOL 73/78 a	according to Annex II and the IBC code:	-				
Transporti	ng/shipment by air (IC	AO-T	I/IATA-DGR)			
UN number:		117	0			
UN proper shipping	g name:	Eth	anol solution			
Transport hazard cl	ass(es):	3				
Packing group:		II				
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Further information	: -					

SECTION 15. Regulatory information



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Trading name:		HISTANOL 70							
Product code:	H70-X**	Revision date:	05 Dec 2022	Version:	6				

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

SECTION 16. Othe	information
16.1 Indication	f changes: -



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Trading name:			HISTANOL 70				
Product code: H70-X**		H70-X**	Revision date:	05 Dec 2022	Version:	6	
16.2	Abbrevia	tions 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 litera source of	ture references and data:	erences and Manufacturer's MSDS file.				
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)						
Classification			Classification procedure				
-			-				
16.5.	Relevant H statements (number and full text)						
	H: 7	225	Highly flammable liquid and vapor.				
16.6.	Training a	advice:	-				
16.7.	Further ir	nformation:	** "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 nstructions for use or improper use of the product described in this material safety data sheet.				

ANNEX: Exposure scenario resulting to chemical safety assessment

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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT			
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

SECTI	ON 1. Identification of t	he substance/	mixture	and of the company/undertaking	
1.1.	Product identifier	ntifier			
	Trade name:	NUCLEAR FA	NUCLEAR FAST RED (KERNECHTROT) REAGENT		
	Chemical name:	-			
	Catalogue number:	KR-OT-X**			
1.2.	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		Counterstain in many 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 and there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet				
	Supplier: Bi		oGnost Ltd.		
	Address:	Me	Medjugorska 59, Zagreb		
	Telephone number: +		385 1 2409997		
	Telefax:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr		
	National contact:				
1.4.	Emergency telephone number				
	National Protection and Rescue Director			112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category code:		Hazard statement*:		
	Not identified as hazardous substance.		-		
2.1.2.	Additional information				
	-				
* For ful	* For full text of Hazard- and EU Hazard-statements: see SECTION 16				
2.2.	Label elements				
	Product identification:	NUCLEAR FAS	T RED (KERNECHTROT) REAGENT		
	Identification number:	-			
	Authorisation number:	-			
	Hazard pictograms:	-			



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version:	4

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

SECTION 3. Com	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)		
6409-77-4/ 229-088-0/ -	-	≤ 1%	Disodium 1-amino-2,4- dihydroxy-9,10-dihydro- 9,10-dioxoanthracene-3- sulphonate	Skin Irr. 2; H315 Eye Irr. 2; H319 STOT SE; H335		

SECTI	ON 4. First aid measures			
4.1.	Description of first aid meas	ures		
	General notes:	-		
	Following inhalation:	Remove person to fresh air. If breathing stops, immediately apply artificial respiration. If breathing difficulties occur, use emergency breathing apparatus. If the symptoms persist, immediately consult a physician.		
	Following skin contact:	Remove all contaminated clothes using sterile gauze. 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 oral cavity, drink 1-2 glasses of water. Do not induce vomiting. 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 a	Most important symptoms and effects, both acute and delayed		
	Following inhalation:	No information available		
	Following skin contact:	No information available		
	Following eye contact:	No information available		
	Following ingestion:	No information available		



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4	

 4.3.
 Indication of any immediate medical attention and special treatment needed

 No information available

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	١	Water, CO ₂ , foam, dry powder		
	Unsuitable extinguishing medi	a: I	No information available		
5.2.	Special hazards arising from th	e substan	ce or mixture		
	Hazardous combustion products:	No information available.			
5.3.	Advice for firefighters	Advice for firefighters			
	Firefighters must always use fireproof suit and self-sustaining breathing apparatus with open circle that contains pressurized air in case of fire in closed space.				
5.4.	Additional information				
	Prevent spills and water used f covering drains.	Prevent spills and water used for putting out fire from contaminating waterways by enclosing and			

SECTIO	ON 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
	Protective equipment:	Use protective equipment in accordance with Section 8. Do not get in eyes or on skin. Do not inhale vapor/aerosols. Remove the persons not directly involved in rescuing procedure from the scene of event.	
	Accident prevention methods:	Keep away from heat, flames and sparks. Secure proper ventilation. Prevent electrostatic charge buildup. Use only grounded devices and equipment. Do not release in drains - explosion hazard.	
	Emergency procedures:	In case of accident secure the location and evacuate the personnel not involved in recovery.	
6.1.2.	For emergency responders:		
	Use protective equipment; in case (see Section 8).	of inadequate ventilation use adequate airways protective equipment	
6.2.	Environmental precautions:		
	Do not dispose of in sewage, drain Protection and Rescue Directorate	age system and waterways. In case of large spillage contact National (NPRD) on 112.	
6.3.	Methods and material for containn	nent and cleaning up	



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4	

6.3.1.	Bunding, covering of drains; capping procedures:	Sand bags.			
6.3.2.	Cleaning up:	Where possible, soak up the product using inert matter, such as sand, silica gel, saw dust). 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:	Recovery of contaminated area should only be conducted by qualified person that uses stipulated protective equipment. Prevent the waste water from entering waterways.			
6.4.	Reference to other sec	tions			
	See Section 7 for information about secure handling.				
	See Section 8 for information about personal protective equipment.				
	See Section 13 for information about containment.				

SECTIC	ECTION 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protective measures				
	Measures to prevent fire:	Keep away from heat, flames and sparks. Secure proper ventilation.			
	Measures to prevent aerosol and dust generatic	Adequate ventilation of the rooms where the n: product is kept and handled. Containers must be firmly closed.			
	Measures to protect the environment:	Keep the containers firmly closed in vertical position when the product is not used. Prevent the product from entering waterways, sewerage and drainage systems by using barrage and semi-barrage made of sand, as well as covering the drainage by using plastic foil.			
	Other measures:	-			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incom	patibilities			
	Technical measures and storage conditions:	In dry, cold and well-ventilated space. Containers must be firmly closed. Maintain adequate ventilation of the rooms where the product is kept and handled.			
	Packaging materials:	Manufacturer's original packaging.			



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Trade name:		NT		
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	Keep away from heat, flames, sparks and sunlight.
	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:	Secure stations for rinsing eyes and showering in the vicinity of work area.
	Industrial sector specific solutions:	-

SECTION 8. Exposure	e contro	ols/persona	l protec	tion				
8.1. Control para	meters							
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values		
				ppm	m	g/m³		
-		-		-		-		-
Substance _ name:								
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of exposure:	oute of exposure: Acute effect local		Acute effect systemic		Chronic effect local		ffect	Chronic effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal	-		-		-			-
Critical physical paran	neters: s	olubility, fla	mmabilit	y, corrosivity:				
				Consumer	_			
Route of exposure:		te effect local		cute effect systemic	(Chronic e local		Chronic effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal	-		-		-			-
PNEC								



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Trade name:		NUCLEAR FAST RED	O (KERNECHTROT) REAGE	NT
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

Environme	ental protection target		PNEC		
Fresh wate	er		No information available		
Freshwate	er sediments		No information available		
Marine wa	ater		No information available		
Marine se	diments		No information available		
Food chai	n		No information available		
Microorga	anisms in sewage treatment		No information available		
Soil (agric	ultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering controls	S			
	magginac to nravant avnocura		product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:	In acco	cordance with Section 7.		
	Organisational measures to prevent exposure:	-	zation of work in order to reduce other worker's influence work process.		
	Technical measures to prevent exposure:		proper workspace ventilation in order to keep tration levels in air below permitted levels.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower f concentration in air; protective gas mask that covers the ace in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection				
			ive gloves must be according to the EU Directive 25/EEC and standard EN 374.		
	Hand protection:		Glove material: nitrile rubber		
			Glove thickness: ≥0.50 mm		
			Break through time: >480 min		
	Other skin protection:		ntistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 13034), and shoes that cover the entire foot 335).		
8.2.2.3.	Respiratory protection:		e mask or half mask equipped with a combined "A-P" filter ed when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	rmation available		
8.2.3.	Environmental exposure controls				



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Trade name:		NUCLEAR FAST RED	(KERNECHTROT) REAGE	NT
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

Substance/mixture related measures to prevent exposure:	See Section 6
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

1.	Information on basic physical ar	nd chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	red	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
9.2.	Other information		

SECTION 10.: Stability and reactivity



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	Trade name:	NUCLEAR FA	ST RED (KERNECHTROT) REAGE	NT
Product code:KR-OT-X**Date of compilation:14 November 2022Version:4	Product code:	KR-OT-X** Date of compila	tion: 14 November 2022	Version: 4

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.

11.1. Informatio	n on toxicological effe	ects				
Acute toxic	ity:					
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposu	Exposure time	
Oral:	No information available	-	No information available			-
Dermal:	No information available	-	No information available	No infoi avail		-
Inhalation:	No information available	-	No information available	No infoi avail		_
Specific tar	get organ toxicity – s	U .				
		Specific effects		gan		Note
Oral:	No information avai	lable	No information a	No information available -		
Dermal:	No information avail	lable	No information a	No information available -		
Inhalation:	No information avail	lable	No information a	available	-	
Aspiration	hazard:	-				
Irritation a	nd corrosion					
3	Exposure ti	ne Sp	ecies Evaluatio	n Me	ethod	Note
Skin corrosion/irritation:	-	-	-	-		No information available
Serious eye damage/irritation	-	-	-	-		No information available



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Trade name:		NUCLEAR FAST REE) (KERNECHTROT) REAGE	NT
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4

Sensitiz	ation							
Dermal exposure	: No informatio	n available						
Inhalation exposure:	No informatio	n available						
Sympto	ms related to the p	ohysical, chemic	al and toxicolog	ical characterist	ics			
Oral exposure:	No informatio	n available						
Dermal exposure	: No informatio	No information available						
Inhalation exposure:	No informatio	n available						
Eye exposure:	No informatio	n available						
Repeate	ed dose toxicity (su	bacute, subchro	onic, chronic)					
	Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No information available	No information available	No information available	No information available	No information available	-		
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-		
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-		
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	-		



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	e:		NUCLEAR	R FAST RED ((ERNECHTROT) REAGEN	Г
Product coc	de: H	KR-OT-X**	Date of com	oilation:	ilation: 14 November 2022		Version: 4
Chronic inhalation	tion available information infor		No information available	No information available	No informatic available	on -	
Spe	cific targ	jet organ toxic	ity – repeated e	xposure (STOT	RE):		
			Specific effects		Target orga	n	Note
Subacute ora	te oral No information available		e No ir	nformation availa	ble	-	
Subacute der	rmal	No infor	mation availabl	e No ir	nformation availa	ble	-
Subacute inh	alation	No infor	mation availabl	e No ir	nformation availa	ble	-
Subchronic o	oral	No infor	mation availabl	e No ir	nformation availa	ble	-
Subchronic d	lermal	No infor	mation availabl	e No ir	nformation availa	ble	-
Subchronic ir	nhalatior	n No infor	mation availabl	e No ir	nformation availa	ble	-
Chronic oral		No infor	mation availabl	e No ir	nformation availa	ble	-
Chronic derm	nal	No infor	mation availabl	e No ir	nformation availa	ble	-
Chronic inhal	lation	No infor	mation availabl	e No ir	nformation availa	ble	-
CM	R effects	(carcinogenici	ty; mutagenicit	y; reproductive	toxicity)		
Caro	cinogeni	city:		No informati	on available		
	-	city: y <i>in-vitro</i> :		No information			
Mut	-	y in-vitro:			on available		
Mut Gen	tagenicit notoxicity	y in-vitro:		No information	on available on available		
Mut Gen Mut	tagenicit notoxicity tagenicit	y in-vitro: /:		No information	on available on available on available		
Mut Gen Mut Ger	tagenicit notoxicity tagenicit rm cell m	y in-vitro: /: y in-vivo:		No information No information No information	on available on available on available on available		
Mut Gen Mut Ger Rep	tagenicit notoxicity tagenicit m cell m productiv	y <i>in-vitro:</i> <i>r</i> : y <i>in-vivo</i> : utagenicity: e toxicity:	of the CMR	No information No information No information No information	on available on available on available on available on available		
Mut Gen Mut Ger Rep Sum pro	tagenicit notoxicity tagenicit m cell m productiv nmary c perties:	y <i>in-vitro</i> : y <i>in-vivo</i> : utagenicity: e toxicity: of evaluation		No information No information No information No information	on available on available on available on available on available		
Mut Gen Mut Ger Rep Sum pro	tagenicit notoxicity tagenicit m cell m productiv nmary c perties:	y <i>in-vitro:</i> <i>r</i> : y <i>in-vivo</i> : utagenicity: e toxicity:		No information No information No information No information	on available on available on available on available on available		
Mut Gen Mut Ger Rep 11.2. Info	tagenicit notoxicity tagenicit m cell m productiv nmary c perties:	y <i>in-vitro</i> : y <i>in-vivo</i> : utagenicity: e toxicity: of evaluation	rds:	No information No information No information No information	on available on available on available on available on available		
Mut Gen Mut Ger Rep Intractions Sum prop Intractions Info Intractions Info Info Info Info	tagenicit notoxicity tagenicit m cell m productiv nmary c perties: prmation locrine d known e	y in-vitro: y in-vivo: utagenicity: e toxicity: of evaluation on other haza isrupting prop	rds:	No information No information No information No information No information	on available on available on available on available on available		

SECTION 12. General notes:					
12.1.	Toxicity				



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT						
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version: 4			

Acute (short-ter toxicity	rm)	Dose	Exposure time	Species	Method	Eval	uation	N	lote
Fish		LC ₅₀	96 hours	No information available	-	No inforr available	mation	-	
Crustacea:		EC ₅₀	48 hours	No information available	-	No inforr available	nation	-	
Algae/aquatic p	lants	IC ₅₀	72 hours	No information available	-	No inforr available	mation	-	
Other organism	S	-	-	-	-	-		-	
Chronic (long-totoxicity	erm)	Dose	Exposure time	Species	Method	Eval	uation	N	lote
Fish		LC ₅₀	96 hours	No information available	-	No inforr available	mation	-	
Crustacea:		EC ₅₀	48 hours	No information available	-	No inforr available	nation	-	
Algae/aquatic p	lants	IC ₅₀	72 hours	No information available	-	No inforr available	nation	-	
Other organism	S	-	-	-	-			-	
12.2. Persist Abiotic		nd degradab Idation	ility						
	D	egradation h	alf-lives	Method		E١	aluation		Note
Marine water	No ir	nformation a	vailable	No information av	vailable	No inform	ation availat	ole	-
Fresh water	No ir	nformation a	vailable	No information av	n available No in		No information available		-
Air	No ir	nformation a	vailable	No information av	vailable	No information available		ole	-
Soil	No ir	nformation a	vailable	No information av	vailable	No informa	ation availat	ole	-
Biodec	iradatio	on							
% Degradation		Time (days)	Method	Eva	luation	1	Note	
No information No			nation	information availab	No ii	nformation	No available		mation
		ive potential							
Octano		er partition co		-					
Value	Conc	entration	рН	°C Method	E	valuation		Note	



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Trade name:				NUC	LEAR	FAST R	ED (KEF	RNECH	TROT) RE	AG	ENT	-
Product code:		KF	R-OT-X**	Date of	Date of compilation: 14 November 2022		Version	: 4				
		1		1			ł					:
No informatio available	n	lo inf vailab	formation le		-	No in availab	formatio le	-	informa lable	tion	No ir available	formation
D :		4 4	: (D									
		entrat	ion factor (B			N.4. (1			1:		N	
Valu			Species			Method			aluation		Not	
No informa available	ation		o information ailable		No inf availal	formatic ble	'n	No info availab	rmation e		No informati available	on
C	hronic	ecoto	oxicity									
v	Value		Dose		Exposure time		Species	N	lethod	E	valuation	Note
Chronic to	Chronic toxicity on fish LC ₅₀			information inf		rmation lable		rmation lable		ormation ilable	-	
Chronic to: crustacea (-		EC ₅₀		lo No nformation informati vailable available				rmation lable		ormation ilable	-
12.4. M	lobility	r in soi	il									
			dicted distrib	ution in e	environr	mental c	ompartn	nents:				
		•	on available				epara					
	urface											
	Valu		°C	C	oncentr	ation		Metho	d		Note	
in	No No information information available available		N	No information available]	-			
A	dsorpt		desorption									
Transport			coefficient /'s constant	lc	og Kow	E٧	vaporatio	n rate	Meth	od	٩	lote



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		4				Page 13 of 17
Trade na	ame:		NUCLEAR FAS	T RED (KERNECH	ITROT) REAGENT	F
Product	code:	KR-OT-X** Date of compilation: 14 Novemb			ember 2022	Version: 4
Soil-wate	er No avail	informatio	n No information available	No information available	No information available	-
Water-aiı	, No avail	informatio able	n No information available	No information available	No information available	-
Soil-air	No avail	informatio able	n No information available	No information available	No information available	-
		PBT and vPvB as nation available	sessment			
		e disrupting prope	erties oting properties that	affect the environr	nent.	
		rerse effects nation available				
SECTION	l 13. Disp	osal consideration	ons			
13.1.		reatment method				
13.1.1.	Product	/Packaging dispo	sal:			
	Submit Protection	•	e legal person autho	rized by the Ministr	y of Environmental	and Nature
13.1.2.	Waste c	odes/waste desig	nations according to	D Low:		
	15 01 10 substan		t contains residual h	azardous substance	s or is contaminated	d with hazardous
13.1.3.	Waste ti	reatment – releva	nt information:			
	No info	rmation available				
13.1.4.		disposal – releva				
	Waste n	nust not be dispo	sed of into the sewa	ge system.		
13.1.5.	Other d	isposal recomme	ndations:			



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	NT				
KR-OT-X**	Date of compilation:	14 November 2022	Version: 4		
ed by the minis aging to the co may occur.	stry in charge. Do not dispose ollectors authorized by the mi	of the packaging into the se	wage system. Submit		
	-		on on categories,		
-					
ng/shipment b	-				
	Not subject to trans	port regulations			
	-				
ass(es):	-				
	-				
irds:	-				
for user:	-				
ng/shipment b	y rail (RID)				
	Not subject to trans	Not subject to transport regulations			
g name:	-				
ass(es):	-				
	-				
irds:	-				
for user:	-				
ng/shipment b	y inland waterways (ADN)				
	Not subject to trans	port regulations			
g name:	-				
ass(es):	-				
	-				
ırds:	-				
for user:	-				
ng/shipment b	y sea (IMDG)				
	Not subject to trans	Not subject to transport regulations			
g name:	-	-			
ass(es):	-	-			
	-	-			
irds:	Not subject to trans	Not subject to transport regulations			
	lispose of the p ed by the minis aging to the co may occur. Community p ble Waste Man d classification sport informat ng/shipment b g name: ass(es): ards: for user: ng/shipment b g name: ass(es): ards: for user: ng/shipment b g name: ass(es): ards: for user: ng/shipment b g name: ass(es): ards: for user: ng/shipment b	KR-OT-X** Date of compilation: lispose of the product's remains into the several by the ministry in charge. Do not dispose aging to the collectors authorized by the minay occur. Community provisions: ble Waste Management Act, Ordinance on Val classification of waste with waste catalog at a catalog	lispose of the product's remains into the sewage system. Submit the rem ed by the ministry in charge. Do not dispose of the packaging into the se aging to the collectors authorized by the ministry in charge. Do not dispo may occur. Community provisions: ble Waste Management Act, Ordinance on Waste Management, Regulatid d classification of waste with waste catalog and list of hazardous waste sport information mg/shipment by road (ADR) Not subject to transport regulations g name: ass(es): for user: ng/shipment by rail (RID) Not subject to transport regulations g name: ass(es): for user: ng/shipment by inland waterways (ADN) Not subject to transport regulations g name: ass(es): for user: - ng/shipment by inland waterways (ADN) Not subject to transport regulations g name: - ing/shipment by inland waterways (ADN) Not subject to transport regulations g name: - ing/shipment by sea (IMDG) Not subject to transport regulations g name: - if or user: - - ass(es): - - if or user: - - ass(es): - - - mg/shipment by sea (IMDG) Not subject to transport regulations g name: - - ass(es): - - - - - - - - - - - - -		



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Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
Product code:	KR-OT-X**	Date of compilation:	14 November 2022	Version:	4

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

15.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorisations and/or restrictions of use						
	Authorisations:	-					
	Restrictions:	-					
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use or 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; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); 					



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Trade name: Product code: KR-OT-X**		NUCLEAR FAST RED (KERNECHTROT) REAGENT					
		KR-OT-X**	Date of compilation:	14 November 2022	Version: 4		
National regulation:		dangerous substances, C and on biological limit va	n on classification, packaging Ordinance on occupational exp alues, Regulation on categorie th a waste catalog and list of Substances Act	posure limit values es, types and			
15.2.	Chemical	safety assessme	nt				
	None						

SECTION 16. Other information							
16.1.	Indication of changes:	-					
16.2.	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 					
16.3.	Key literature references and source of data:	-					
16.4.	Classification and procedur 1272/2008 (CLP)	e used to derive the classification for mixture according to Regulation (EC)					
Classifi	cation	Classification procedure					
-		-					
16.5.	Relevant H statements (nur	nber and full text)					
	H315	Causes skin irritation.					
	H: H319	Causes serious eye irritation.					
	H335	May cause respiratory irritation.					
16.6.	Training advice:	-					
16.7.	Further information:	 ** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. 					



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Trade name:		NUCLEAR FAST RED (KERNECHTROT) REAGENT			
Product code: KR-OT-X**		Date of compilation:	14 November 2022	Version: 4	
-					



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

1.1	Product identifier					
	Trading name:	OXALIC ACI	D, 1% SO	LUTION		
	Chemical name:	-				
	Catalogue number:	OKS1-OT-X	**			
1.2	Relevant identified use	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		For use v	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 of the safety data sheet					
	Supplier:	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	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:	-				



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

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



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

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

SECTI	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	water spray, dry powder, CO ₂ 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	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 cont	ainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			



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

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

SECTIO	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 incompatibilities				
	Technical measures and storage conditions:	well ventil	in tightly closed and upright set containers in a entilated storage rooms at temperatures ranging 15 to 25 °C. Protect from heat and direct sunlight.		
	Packaging materials: Manu		nufacturer's original packaging.		
	Advices for storage equipment: Advices for storage equipment: Advices for storage equipment: Advices for storage equipment:		r from food and drink. Keep the containers sed.		
			e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.		



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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					cupational exposure limit alues/short term values		Bi	Biological 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 protection target					PNEC				
Fresh water				ļ	no information available				
Freshwater sediments						no information available			
Marine water						no information available			
Marine sediments						no information available			



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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 exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
	Hand protection:	•	otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
	Other skin protection: footwo imper		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:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No information available			
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		



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Trading name:		OXALIC ACID, 1% S	OLUTION		
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.		



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			- 5							
Tradin	ng name:		OXALIC ACID, 1% S	SOLUTION						
Produ	ct 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	Incompatible 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	Effe	ective Dose LD ₅₀ /LC ₅₀ Exp or ATE _{mixture}		Exposure	time	Results
Oral:	No information available	-	No	information av	ailable	ole -		_
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 available			-	
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					



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

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

Oral exposure:	No informati	on available.				
Dermal exposure	: No informati	on 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	tion 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	-



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		Page 10 of 17								
Trading	g name:		OX	ALIC ACID, 1%	SOLUTION					
Produc	ct code:	OKS1-OT-X**	Date	of compilation:	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	_				
	onic oral	No information av			nformation available	_				
	onic dermal	No information av		-	nformation available	-				
	onic inhalatic				nformation available	-				
Chronic		No information av			nformation available	-				
Chronic dermal		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	Based on available data, the classification criteria are not met.						
	Mutagenici	ty <i>in vitro</i> :	Bas	Based on available data, the classification criteria are not met.						
	Genotoxicit	y:	Bas	Based on available data, the classification criteria are not met.						
	Mutagenici	ty <i>in vivo</i> :	Bas	criteria are not r	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 n						
	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:								
	The substance/mixture does not com- components considered to have endoced disrupting properties according to REA Article 57(f) or Commission Delegaregulation (EU) 2017/2100 or Commiss Regulation (EU) 2018/605 at levels of 0.19 higher.									
	nigner.									

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



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

Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	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 ₅₀	96 hours	No information available	No information available	No information available	-
~ ·	EC ₅₀	48 hours	No information available	No information	No information	-
Crustacea:			available	available	available	
Crustacea: Algae/aquatic plants	IC ₅₀	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 No information available		No information available	No information available	No information available	



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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	M	ethod		Evalua	ation		Note	
-	-		-			-		-			-		
	Bioconcen	tration f	actor (BCF)										
	/alue		Species		Method		F	Valuatio	on		Note		
No information No information		ation	No info	ormatio		No in	formatio		-				
availab	ole	availab	le		availab	le		availa	ble				
					8 8 9								
	Chronic ed	cotoxicity	/										
	Value		Dose		osure ime	Sp	ecies	Me	thod	Evalu	ation	Note	
Chroni	c toxicity on	fish	LC ₅₀	No information available		No infor availa	mation able	No inforn availa	nation ble	No inform availab		-	
	c toxicity on cea (<i>Daphnia</i>)	EC ₅₀	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	-			



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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



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



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

	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:	 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.		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:	** "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.		



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

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:	PARALDEHYDE FUCHSIN REAGENT						
Product code:	PAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	PARALDEH	/DE FUCH	SIN REAGENT		
	Chemical name:	-	-			
	Catalogue number:	PAF-OT-X**				
1.2	Relevant identified uses of the substance of		tance or n	nixture and uses advised against		
	Uses:		For stair	ing elastins and mucins.		
	Uses advised against:		Only the identified uses are advised.			
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier of the safety data sheet					
	Supplier:	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection an	d Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	CTION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to F	Regulation (EC) No 12	272/2008 (CLP)			
	Hazard class and category code: Hazard statements*:					
	Flam. Liq. 2		H225			
	Carc. 1B		H350			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Haza	rd-statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	PARALDEHYDE	FUCHSIN REAGENT			
	Identification number:	-				
	Authorization number:	-				



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Trading name:	PARALDEHYDE FUCHSIN REAGENT					
Product code:	PAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

	Hazard pictograms:	GHS02 GHS08		
	Signal word:	Danger		
	Hazard statements:	H225 Highly flammable liquid and vapour.H350 May cause cancer.		
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P308+P313 If exposed or concerned: Get medical advice/attention. 		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	Endocrine Disrupting Proper			
	No known endocrine disrupting properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.			
	(Direct Red 28 C.I.) Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).			

SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
64-17-5/ 200-578-6/ 603-002-00-5	01- 2119457610- 43-xxxx	60 - 80 %	ethanol	Flam. Liq. 2; H225
569-61-9/ 209-321-2/ 611-031-00-X	-	0.5 %	4,4'-(4-iminocyclohexa-2,5- dienylidenemethylene) dianiline hydrochloride	Carc. 1B; H350

SECTION 4. First aid measures		
4.1	Description of first aid measures	
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.



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Trading name:		PARALDEHYDE FUCHSIN REAGENT			
Product code:	PAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

SECTION 5. Firefighting measures			
5.1	Extinguishing media		
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂	
		Large fire - water spray or alcohol-resistant foam	
	Unsuitable extinguishing media:	No information available	
5.2	Special hazards arising from the 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		
	Do not contaminate the environment with extinguishing media.		

SECTION 6. Accidental release measures



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Trading name:	PARALDEHYDE FUCHSIN REAGENT					
Product code:	PAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

For non-emergency personnel				
Protective equipment:	Use personal protective equipment (see Section 8).			
Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.			
Emergency procedures:	Mark the area using proper signs.			
For emergency responders:				
Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
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.				
Methods and material for containment and cleaning up				
Bunding, covering of drains; capping procedures:	and or clay barriers.			
Cleaning up:	Where possible, the substance can be absorbed by using absorbing naterial. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until lisposal. 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.			
Other information:	Do not use incompatible materials (see Section 10).			
Reference to other sections				
	Emergency procedures: For emergency responders: Use protective equipment; in ca (see Section 8). Environmental precautions: Do not dispose of in sewage, dr Protection and Rescue Director Methods and material for contains; capping procedures: Cleaning up: Cleaning up: Other information:			

SECTIC	N 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms.				
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				
	Other measures:	-				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wa	sh hands after work and before eating.				
7.2	Conditions for safe storage, including any incompatibilities					



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Product code:	PAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage roomsat temperatures ranging from 15 to 25 °C.
	Packaging materials:	Manufacturer's original packaging. Avoid metal containers.
	Requirements for storage rooms and vessels	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection									
8.1 Control pa	rameters								
Substance (CAS No			Occupational exposure limit values/short term values		В	Biological limit values	
				ppm		mg/m ³			
Ethanol 64		64-17-	5	1000/-		1900/-		-	
Substance name:	-								
EC No:	-	CAS No:	-						
DNEL									
				Industrial					
Route of	А	cute		Acute		Chronic		Chronic	
exposure:	effe	ct local	effec	ct systemic		effect loca	I	effect systemic	
Oral	-		-		-			-	
Inhalation	1900 mg (ethanol)		-		-			380 mg/m ³ (ethanol)	
Dermal	-		-		-			343 mg/kg (ethanol)	
Critical physical par	ameters: s	olubility, flam	nmabilit	ty, corrosivity:		-			
				Consumer					



Other skin protection:

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Route of		Acute	Acute		Chronic	Chronic	
exposure	•	effect local	effect sys	temic	effect local	effect systemic	
Oral		-	-		-	87 mg/kg bw/day (ethanol)	
Inhalation		950 mg/m ³ (ethanol)	-		-	114 mg/m ³ (ethanol)	
Dermal		-	-		-	206 mg/kg (ethanol)	
PNEC							
Environme	ental prot	ection target		PNEC			
Fresh wate	er			0.96 mg/l (ethanol)			
Freshwate	er sedimer	nts		3.6 mg	/kg (ethanol)		
Marine wa	Marine water				g/l (ethanol)		
Marine sediments				2.9 mg	/kg (ethanol)		
Food chain				380-72	0 mg/kg (ethanol)		
Microorganisms in sewage treatment			580 mg	g/l (ethanol)			
Soil (agricultural)			0.63 mg/kg (ethanol)				
Air			No information available				
8.2	-	ure controls					
8.2.1.	-	priate engineering con	trolo				
0.2.1.				llso th	a product in well ventilat	ed rooms. Use personal	
		Substance/mixture related measures to prevent exposure during identified uses:			protective equipment. Do not eat, drink or smoke in the		
		Structural measures to prevent exposure:			In accordance with Section 7.		
	Organ exposi	isational measures to p ure:	prevent	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.				
8.2.2.	Persor	al protection equipme	ent				
8.2.2.1.	Eye an	d face protection:	levels of	of conce		5) or visor in case of lower gas mask that covers the pricentration in air.	
8.2.2.2.	Skin pi	rotection					
	Hand J	protection:	Protec	tive nitri	e gloves, 0.11 mm thick	(EN 374).	
	-						

Wear antistatic clothing made of natural fibers (such as cotton)

with long sleeves (EN 340) and shoes that cover the entire foot.



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8.2.2.3.	Respiratory protection:	Suitable mask (EN 136) or half mask (EN 140) equipped with a combined "A1 + Form" filter (EN 143) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures 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:	violet	No information available
Odour/odour threshold:	ethanol like/no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lover and upper explosion limit:	No information available	No information available
Flash point:	21 °C	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n- octanol/water (log value):	No information available	No information available
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



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Trading name:	PARALDEHYDE FUCHSIN REAGENT				
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9.2 Other information

SECTIO	ECTION 10. Stability and reactivity					
10.1	Reactivity:	The product is stable under normal working and storage conditions.				
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.				
10.3	Possibility of hazardous reactions:	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. Toxic	cological information	on							
11.1 Informatio	11.1 Information on toxicological effects								
Acute toxi	city:								
Route of exposure:	Method	Specie	es Do	se LD ₅₀ /LC ₅₀ or ATE _{mix}	Exp	oosure time	Results		
Oral:	No information available	rat	_	nformation lable	-		7.060 mg/kg (ethanol)		
Dermal:	No information available	rabbit	-	nformation lable	-		>20.000 mg/kg (ethanol)		
Inhalation:	No information available	rat	No information available		-		>8.000 mg/l (ethanol)		
Specific ta	rget organ toxicity –	single exp	oosure (S	TOT SE):					
	Specific	effects		Target	t organ		Note		
Oral:	No information av	ailable		No information	n availab	le -			
Dermal:	No information av	ailable		No information available		e -			
Inhalation:	No information av	ailable		No information available		e -			
Aspiration	hazard:		No inforn	nation available					
Irritation a	nd corrosion								
	Exposure ti	ime	Speci	es Evalua	ition	Method	Note		



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Trading name:	PARALDEHYDE FUCHSIN REAGENT						
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Skin corrosion/irritatio	on: ava	in ilable	formation	No information available	No information available	No information available	-
Serious eye damage/irritatior	No n ava	in ilable	formation	No information available	No information available	No information available	-
Canaitia							
Sensitization		No inf	ormation ava	ailabla			
Respiratory sensi			ormation ava				
Respiratory serisi							
Sympto	ms related	to the ph	nysical, chem	ical and toxicol	ogical character	istics	
		•	•		-	, headache, vertig	o. intoxication
Oral exposure:	and	loss of c	onsciousnes		to higher levels	s of concentration.	
Dermal exposure	: Defa	atting, dr	y skin.				
Inhalation exposure: May cause eye irrita Bronchoconstriction headache, vertigo, concentration.				ssible. Possible	symptoms inclu	ide CNS symptom	s such as
Eye exposure:	Spla lesic		cause disco	mfort, stinging s	ensation, conju	nctival redness, co	rneal surface
				· · · · · · · · · · · · · · · · · · ·			
Repeate	a dose tox	icity (sub		ronic, chronic)			
	Dos	se .	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No info available	rmation	No information available	No information available	No informatior available	No information available	-
Subacute dermal	No info available	rmation	No information available	No information available	No informatior available	No information available	-
Subacute inhalation	No info available	mation	No information available	No information available	No information available	No information available	-
Subchronic oral	No info available	rmation	No information available	No information available	No information available	No information available	-
Subchronic dermal	No info available	rmation	No information available	No information available	No informatior available	No information available	-
				<u>k</u>		<u>i</u>	<u>i</u>



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Trading name:	PARALDEHYDE FUCHSIN REAGENT					
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Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

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

CMR effects (carcinogenicity; mutagenicity; reproductive toxicity) Presumed to have carcinogenic potential for humans. Carcinogenicity: Mutagenicity in vitro: No information available No information available Genotoxicity: Mutagenicity in vivo: No information available Germ cell mutagenicity: No information available Reproductive toxicity: Suspected of damaging the unborn child. Summary of evaluation of the CMR No information available properties: 11.2 Information on other hazards: 11.2.1. Endocrine disrupting properties:



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Trading name:	PARALDEHYDE FUCHSIN REAGENT						
Product code:	PAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		
1		I					

12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	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 ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-



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Trading name: PARALDEHYDE F							
F	PAF-OT-X**	Date of compila	ation:	21 Dec 2022		Version:	4
Marine water No information availa		No information available	No information available		-		
Fresh water No information availab		No information available	No information available		-		
No information available		No information available	No information available		-		
Soil No information available		No information available	No information available		-		
adat	ion						
n	Time (days)	Method	Evaluation			Note	
	No information available	No information available	No information available				
	No No No	No information available adation Time (days) No information	PAF-OT-X** Date of compilation available No information available No information available	PAF-OT-X** Date of compilation: No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available	No information availableNo information availableNo information availableNo information availableNo information availableNo information availableAdationTime (days)MethodEvaluationNoinformationNo information availableNo information	PARALDEHYDE FUCHSIN REAGENT PAF-OT-X** Date of compilation: 21 Dec 2022 No information available No information available No information available - No information available No information available No information available - No information available No information available No information available - No information available No information available No information available - No information available No information available - - Adation - - - - Mo Information available No information available - No Information available No information available - No information No information available - - Adation - -	PARALDEHYDE FUCHSIN REAGENT PAF-OT-X** Date of compilation: 21 Dec 2022 Version: No information available No information available - - Adation - - - - Adation - - - - No information No information No information - - No - - - - - </td

12.3 Bioaccumulative potential

Oct	Octanol-water partition coefficient (log Kow)											
Value	Concentration	рН	°C	Method	Evaluation	Note						
-	-	-	-	-	-	-						

Bioconcentration factor (BCF)						
Value	Species	Method	Evaluation	Note		
No information available	No information available	No information available	No information available	-		

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



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12.4	Mobility in soil								
	Kno	wn or pre	dicted distributi	on in environn	nental	compartments:			
	No	informatio	n available						
	Surface tension:								
		Value	°C	Concentra	ation	Meth	od		Note
		rmation ilable	No information available	No informa available	tion	No informatic available	n	-	
Transpo		A/D	desorption coefficient	log Kow	Eva	aporation rate	Meth	nod	Note
Soil-wa	ater	No available	's constant information	No information available	No ir avail	nformation able	No inforn available	nation	-
Water-	air	No available	information	No information available	No ir avail	nformation able	No inforn available	nation	-
Soil-air		No available	information	No information available	No ir avail	nformation able	No inforn available	nation	-
12.5.	The acco	substance ording to F		not contain cor 7(f) or Commis	sion D	elegated regula			isrupting properties or Commission
12.6.	End	ocrine dis		<u>AC</u>					
12.0.	Endocrine disrupting propertiesThe substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.								
12.7.	Oth	er adverse	effects						
	No	informatio	n available						
SECTIC	DN 13	. Disposal	consideration	s					



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Trading name:	PARALDEHYDE FUCHSIN REAGENT				
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13.1	Waste treatment methods		
13.1.1.	Product/Packaging disposal:		
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.		
13.1.2.	Waste codes/waste designation	ons according to Law:	
	Packaging that contains resid	ual hazardous substances or is contaminated with hazardous substances	
13.1.3.	Waste treatment – relevant in	formation:	
	No information available		
	1		
13.1.4.	Sewage disposal – relevant in	formation:	
	Waste must not be disposed	of into the sewage system.	
13.1.5.	Other disposal recommendati		
	authorized by the ministry in	t's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. Submit rs authorized by the ministry in charge.	
13.1.6.	Relevant Community provisio	ns:	
	-		
SECTION	14 TRANSPORT INFORMATI	ON	
-	Transporting/shipment by road	(ADR)	
UN numb	per:	1170	
UN prope	er shipping name:	Ethanol solution	
Transpor	t hazard class(es):	3	
Packing g	jroup:	11	
Environm	entally hazardous:	-	
Special p	recautions for user:	-	
-	Transporting/shipment by rail (I	RID)	
UN numb	oer:	1170	
UN prope	er shipping name:	Ethanol solution	
Transpor	t hazard class(es):	3	
Packing g	jroup:	11	
Environm	entally hazardous:	-	



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Product code:	PAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	11
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:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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



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Trading name:		PARALDEHYDE FUCHS	SIN REAGENT		
Product code:	PAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
Information according 1 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-
National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2 Chemical safety assessm	ent
None	

SECTIO	SECTION 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 			
16.3.	Key literature references and source of data:	-			



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Trading name:		PARALDEHYDE FUCH	SIN REAGENT		
Product code:	PAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	cation	Classification procedure			
-		-			
16.5.	. Relevant H statements (number and full text)				
	225 Highly flammable liquid and vapour.				
	H: 350	May cause cancer.			
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



SAFETY DATA SHEET

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Trading name: POTASSIUM PERMANGANATE			NATE, 0.5% SOLUT	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	POTASSIUM PERMANGANATE, 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:		 The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes 			
1.3.	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+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	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:	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:	-			



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
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:	P273 Avoid release to the environmentP501 Dispose of contents/container in accordance with local regulations.
	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.			
	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 in burning sensation.		Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.			



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

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Tradin	rading name: POTASSIUM PERMANGANATE, 0.5% SOLUTION						
Produ	ct code:	KP05-OT-X**		Date of compilation:	03.06.2019.	Version:	5
	Swallowing may cause irritation of mucosa, tingling sensation in t burning sensation; higher levels of concentration may cause naus abdominal pain and vomiting. In case of vomiting, aspiration caus coughing, difficult breathing. Higher levels of concentration may suffocation.				ea, es		
4.3.	Indication	of any immediate medical attention and special treatment needed					

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

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 those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clav harriers			



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Trading name:			POTASSIUM PERMANGANATE, 0.5% SOLUTION			TION
Product code: KP05-OT		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			
	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. Thoroughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.		
	Packaging materials:	Manufacturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).		
7.3.	Specific end use(s)			
	Recommendations:	-		
	Industrial sector specific solutions:	-		



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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 N	10		exposure limit t term values	Biological limit values	
					ppm	mg/m ³		
Potass	ium permang	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	effe	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				rmation availabl		
Marine						No information available		
Marine sediments						rmation availabl		
Food chain						rmation availabl		
Microorganisms in sewage treatment						rmation availabl		
	gricultural)					rmation availabl		
Air					No info	rmation availabl	e	

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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 exposure during identified uses: Structural measures to prevent exposure:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
			No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to 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.	.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		
	UTDAL CLID DLOTACTION.		ear antistatic clothing made of natural fibers (such as cotton) with long eves (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	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 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 pro exposure:	event	See Section 6		

SECTIO	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES				
9.1.	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	No information available		
	Color:	dark purple	No information available		

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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTIO)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 LD₅₀/LC₅₀ or Species Exposure time Results exposure: ATE_{mixture} 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.

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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 information available	information information		No information available	No informati available	on -	
Subacute dermal	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Subacute inhalation	No information available	No information available	No informatio available	on	No information available	No informati available	on -	
Subchronic oral	No information available	No information available	No informatio available	on	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 informatio available	on	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
		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 ir	nformation avai	lable lable	-	

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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	-			
Chroni	ic inhalation	No informa	tion available		No information available	-			
	CMR effects	(carcinogenicity	v, mutagenicity,	, repro	ductive toxicity)				
	Carcinogenic	Current st	udies c	on test animals did not indicate ca	rcinogenic effects.				
	Mutagenicity	ı in-vitro:	Current in	Current in vitro tests did not indicate mutagenic effects.					
	Genotoxicity	No inform	ation a	available					
	Mutagenicity	Current in	Current in vivo tests did not indicate mutagenic effects.						
	Germ cell mu	No information available							
	Reproductive	e toxicity:	No toxicity on reproductive organs was determined in reproductive organs.						
	Summary of	evaluation of th	ne CMR propert	ties:	-				
11.2.	Practical exp	eriences:							
	Remarks rele	evant for classifie	cation: I	No info	ormation available				
	Other remar	ks:	1	No info	ormation available				
11.3.	General note	es:							
	-								

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

Trading nar	ne:		PO	TASSI	UM PERMAN	GANA	ATE, 0.5 9	% SOLU		11 of 16
Product coc	le:	KP05-OT-X*	:*	Da	ate of compila	tion:	03.06.2	2019.	Versic	on: 5
Fish LC ₅₀ 96 h		96 hour	'C	lo information vailable	No infori availa	mation able	No inform availab		-	
Crustacea: EC ₅₀		EC ₅₀	48 hour	'C	lo information vailable	No infori availa	mation able	No inform availat		-
Algae/aquatic plants		IC ₅₀	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		Evaluati		on	Note
Marine water	1arine No information available			No information available			le No information available			-
Fresh water	vater No information available			No in	formation availa	able	No inforr	nation av	vailable	-
Air	No ir	nformation av	ailable	No information available			No inforr	nation av	vailable	-
Soil	No ir	nformation av	ailable	No information available No			No inforr	nation av	vailable	-
Biod	legradat	tion								
% Degradati		Time (day	s)		Method		Evaluatio	on	Ν	lote
No informati available	-	o infor vailable		No info availabl	ormation le		informati ailable	on	No informa available	ation
12.3. Bioa	iccumula	ative potentia	al							
		efficient: n-oo	tanol/wat							
Value		entration	рН	°C	Method			ation		Note
-	No i availab	nformation le	-	-	No information available		No inform available	nation	-	
					:				1	
	oncentr	ation factor (E			
Value No information No		Speci	ecies information		Method No information		Evaluation No information		Note No information	

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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	osure									
	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 ₅₀	availa		availa	mation able	availa	mation able	ava	ilable		-	
Chronic	tovic	rity on		No		No		No		No	infor	nation		
crustace			EC ₅₀	inforr availa		infor availa	mation	inforr availa	mation		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		Note			
	No		No	No	No information		No information							
		rmation lable	information available	avai	ilable		availat	ole			-			
	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	No information available												

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Trading name:	POTAS	SIUM PERMANGANA	TE, 0.5% SOLUTIO	N	
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	No information available					
13.1.3.	Waste treatment – releva	Waste treatment – relevant information:					
	No information available						
13.1.4.	Sewage disposal – releva	ant information:					
	Waste must not be disposed 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)					
UN number:		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 - - -					

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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: quantitiy p		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:	-				



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

	Restrictions:	-
	Other EU regulations:	 EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; 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); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	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 ₅₀ LC ₅₀ STOT-SE	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:	-		
16.4.	4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classification		Classification pr	ocedure	
-		-		
16.5.	. Relevant H statements (number and full text)			



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

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Tradir	ng name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION						
Product code: KP05-OT-X**			Date of compilatior	: 03.06.2019.	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 le	ong lasting effects.				
16.7. Further information:		formation:	 ** "X" in the product code mar the product) We are not responsible for cor instructions for use or imprope material safety data sheet. 	sequences in case of	failure to comply with			

ANNEX:
EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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

SECTI	ON 1. Identification of	the 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 advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent 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:			-		

SECTIO	ECTION 2. Hazards identification							
2.1.	Classification of the substance	Classification of the substance 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:	-						
	Authorization no.:	-						
	Hazard pictograms:	-						



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Trading name:	SULFURIC ACID, 0.5% SOLUTION				
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	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	CTION 4. First aid measures					
4.1.	Description of first aid measures					
	General notes:		-			
	Following inhalation:		Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to- mouth) and contact a physician.			
	Following skin contact:		Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:		Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.			
	Following ingestion:		Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.			
	Self-protection of the first ai	der:	Treat symptomatically.			
4.2.	Most important symptoms a	nd effe	ects, both acute and delayed			
	Following inhalation:		rding to our findings, chemical, physical and toxicological properties of ubstance have not been entirely tested.			
			rding to our findings, chemical, physical and toxicological properties of ubstance have not been entirely tested.			



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Trading name:			SULFURIC ACID, 0.5% SOLUTION					
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Following eye contact:		According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.						
Following indection.				ling to our findings, chemi ostance have not been ent		xicological properties of		
4.3.	Indication of any immediate medical attention and special treatment needed							
	-							

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

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personne	l .				
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods: Accident prevention methods: Evacuate members of all non-essential personne members without protective equipment. Remove a sparks and ignition. Do not smoke.					
	Emergency procedures: Mark the area using proper signs.					
6.1.2.	For emergency responders:					
	Wear protective equipment (see Section 8).					
6.2.	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3.	Methods and material for con	tainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.				



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		Min		
		Vhere possible, the substance c		5

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:	-				



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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 ³		
-		-		-	-	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	rmation available		
Freshwater sedime	nts			No info	rmation available		
Marine water				No info	rmation available		
Marine sediments				No info	No information available		
Food chain				No info	rmation available		
Microorganisms in	sewage tr	eatment		No info	rmation available		
Soil (agricultural)				No info	rmation available		
				No info	rmation available		



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8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to 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) ovisor.			
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 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				



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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:		



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Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	-
Specific tar	get organ toxicity – s	single exposure	(STOT SE):		
: •	Specific	effects	Target organ		Note
Oral exposure: No information ava		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:	-	-	-		
Constitutionation					
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

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Trading name:		SULFURIC ACID, 0.59	% SOLUTION	
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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

-

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Trading name:	SULFURIC ACID, 0.5% SOLUTION			
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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	Based on available data, the classification criteria are 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 ₅₀	96 hours	No information available	No information available	-	-		
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-		
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-		
Microorganisms	LC ₅₀	72 hours	-	-	-	-		



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Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2. Persistence and degradability

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

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

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



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v	/alue		Species	Method		Evaluation	Note		
No information No available available		informati able	on No inform available	nation	No information available	No information availab		vailable	
	Chronic	ecotoxio	city						
	Value		Dose	Exposure time	Species	6 Method	Eva	luation	Note
Chronie	c toxicity c	on fish	LC ₅₀	No information available	No informatio available	No information available	No inf availat	ormation ble	-
Chronic toxicity on crustacea (<i>Daphnia</i>) EC ₅₀		EC ₅₀	No information available	No informatio available	No information available	No inf availat	ormation ble	-	
		•		on in environm	iental comp	oartments:			
		rmation tension:	available	on in environm	1	oartments: Method			Note
	No infor Surface Value No	rmation tension: e	available °C No		tion	Method			Note
	No infor Surface	rmation tension: e tion	available °C	Concentra	tion		able	-	Note
	No infor Surface Value No informat	rmation tension: e tion	available °C No nformation	Concentra No informa	tion	Method	able		Note
	No infor Surface Value No informat	tension: e N tion in e a	available °C No nformation available	Concentra No informa	tion	Method	able		Note
Transpo	No infor Surface Value No informat available Adsorpt	tension: e N tion in e a ion / dea	available °C No nformation available	Concentra No informa	tion No	Method			
•	No infor Surface Value No informat available Adsorption	ion / de A/D co Henry's	available °C No nformation available sorption efficient	Concentra No informa available	tion No	Method		- Method ormation	
Transpo Soil-wa Water-	No infor Surface - Value No informat available Adsorpt ort ort nter No ava ava	ion / dea A/D co Henry's	available °C No nformation available sorption efficient constant	Concentra No informa available log Kow	tion No tion No Eva on No infavailat	Method o information avail aporation rate ormation ble ormation	No inf availat	- Method ormation ble ormation	Note Note



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Product	t code:	SK05-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		
12.5.	Results of	PBT and vPvB assessm	ent				
12.3.	The substa according	ance/mixture does not	contain components considere or Commission Delegated reg				
12.6.	Endocrine	disrupting properties					
	according		contain components considere or Commission Delegated reg els of 0.1% or higher.				
12.7.	Other adv	erse effects					
	No inform	ation available					
		osal considerations					
13.1.	Waste tr	eatment 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					
13.1.3.	\A/acta tr	eatment – relevant inf					
15.1.5.		mation available					
	110 11101						
13.1.4.	Sewage	disposal – relevant infe	ormation:				
	Waste m	nust not be disposed o	f into the sewage system.				
	È						
13.1.5.		sposal recommendation					
	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 a	ackaging into the s	ewage system. Submit		
13.1.6.	Relevant	t Community provision	S:				



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SECTION 14. Transport information				
Transporting/shipment by road (ADR)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by rail (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:	-			



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

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



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Tradin	ng name:		SULFURIC ACID, 0.5% SOLUTION				
Produ	ct code:	de: SK05-OT-X** Date of compilation: 21 Dec 2022 Version					
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.	Classification and procedure used to derive the classification for mixture according to Regulation (EC 1272/2008 (CLP)						
Classifi	Classification C		Classification procedure				
-			-				
16.5.	5. Relevant H statements (number and full text)						
	H: 314		Causes severe skin burns and eye damage.				
16.6.	Training a	dvice:	-				
16.7.	Further inf	ormation:	 ** "X" in the product code marks different volumes (different packagings the product) We are not responsible for consequences in case of failure to comply wit instructions for use or improper use of the product described in this material safety data sheet. 				

ANNEX:

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Exposure scenario resulting to Chemical safety assessment