

MASSON FONTANA KIT

The kit contains:

Nuclear Fast Red (Kernechtrot) reagent
Oxalic acid, 1% solution
Potassium permanganate, 0.5% solution
Silver ammonia reagent
Sodium thiosulfate, 5% solution
Sulfuric acid, 0.5% solution



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

1.1.	Product identifier				
	Trade name:	NUCLEAR FAS	ST RED (K	(ERNECHTROT) REAGENT	
	Chemical name:	_			
	Catalogue number:	KR-OT-X**			
1.2.	Relevant identified uses	of the substa	nce or mi	xture and uses advised against	
	Uses:		Counte	erstain in many special staining kits.	
	Uses advised against:			he identified uses are advised.	
	Reason why uses advise	ed against:	The product is intended for use only as an <i>in</i> against: medical device and there is no reason to use purposes.		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:	Bio0	Gnost Ltd		
	Address:	Med	Medjugorska 59, Zagreb		
	Telephone number: +385		5 1 2409997		
	Telefax:	+385		5 1 2404039	
	e-mail of competent pe	erson: <u>msc</u>	ls@biogn	<u>nost.hr</u>	
	National contact:	-			
1.4.	Emergency telephone n	Emergency telephone number			
	National Protection and Rescue Directo		torate:	112	
		Medical information:			
	Medical information:			+385 1 2348 342	

SECTIO	SECTION 2. Hazards identification							
2.1.	Classification of the substance or	Classification of the substance or mixture						
2.1.1.	Classification according to Regula	tion (EC) No 127	2/2008 (CLP)					
	Hazard class and category	y code:	Hazard statement*:					
	Not identified as hazardous subst	ance.	-					
2.1.2.	Additional information							
	-							
* For fu	ll text of Hazard- and EU Hazard-sta	atements: see SE	CTION 16					
2.2.	Label elements							
	Product identification:	NUCLEAR FAST	RED (KERNECHTROT) REAGENT					
	Identification number:	-						
	Authorisation number:	-						
	Hazard pictograms:	-						



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

SECTION 3. Con	SECTION 3. Composition/information on ingredients								
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)					
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	TON 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	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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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:		Water, CO ₂ , foam, dry powder			
	Unsuitable extinguishing medi	a:	No information available			
5.2.	Special hazards arising from th	ne substa	ance or mixture			
	Hazardous combustion products:	No information available.				
5.3.	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 for putting out fire from contaminating waterways by enclosing and covering drains.					

SECTIO	DN 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.				
	Keep away from heat, flames and sparks. Secure proper ventilation. Accident prevention methods: 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 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 containm	nent and cleaning up				



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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 go saw dust). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit fo disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and invo 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 sections			
	See Section 7 for information about secure handling.			
	See Section 8 for information about personal protective equipment.			
	See Section 13 for information about containment.			

SECTIO	SECTION 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 generation	Adequate ventilation of the rooms where the 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. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incor	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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	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:	-

K	Recommendations.				vicinity of work area.			
In	dustrial sec	ctor specific solutio	ons:	-				
SECTION 8	3. Exposure	e controls/person	al protec	tion				
8.1. Co	ontrol para	meters						
Sı	ıbstance	CAS	No		exposure limit t term values	Biological limit values		
				ppm	mg/m³			
-		-		-	-	-		
Substance name:	_				_			
EC No:	-	CAS No:	-					
DNEL								
				Industrial				
Route of e	xposure:	Acute effect A		cute effect systemic	Chronic e local			
Oral		- IOCai	-	systemic .	- IOCal	- systemic		
Inhalation		_	-		- -	- - - - - - - - - - -		
Dermal		-	-		-	-		
	rsical paran	ı neters: solubility, fla	<u> </u>	v, corrosivity:				
				Consumer				
Route of exposure:		Acute effect local		cute effect systemic	Chronic e			
Oral		-	-		-	-		
Inhalation		-	-		-	-		
Dermal		-	-		-	-		
PNEC								



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Environm	ental protection target		PNEC		
Fresh wat	er		No information available		
Freshwater sediments			No information available		
Marine wa	ater		No information available		
Marine se	ediments		No information available		
Food chai	in		No information available		
Microorga	anisms in sewage treatment		No information available		
Soil (agric	cultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering control	S			
	Substance/mixture related measures to prevent exposure during identified uses:		product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.		
	exposure: Organisational measures to Organiza		In accordance with Section 7.		
			ization 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	plasses 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 (35).		
8.2.2.3.	Respiratory protection:	Suitable mask or half mask equipped with a combined "A-P" filter and used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No info	No information available		
8.2.3.	Environmental exposure controls				



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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:	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 noctanol/water (log value):	No information available	No information available			
	Vapour pressure:	No information available	No information available			
	Density and/or relative density	No information available	No information available			
	Relative vapour density:	No information available	No information available			
	Particle characteristics:	No information available	No information available			
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.
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 Toxico	ological information						
	n on toxicological effe	cts					
Acute toxic	ity:						
Route of exposure:	Method	Species	LD	ctive dose ₅₀ /LC ₅₀ or TE _{mixture}	Exposur	re time	Results
Oral:	No information available	_	No inf availat	ormation ole	No infor availa		_
Dermal:	No information available	_	No inf availat	ormation ole	No information available		_
Inhalation:	No information available	-	No inf availat	ormation ole	No information available		-
Specific tar	get organ toxicity – si Specific		(STOT SE):	Target org	an		Note
	•						Note
Oral:	No information avail			No information available - No information available -			
Dermal:	No information avail						
Inhalation:	No information avail	able	INO II	ntormation av	/allable	-	
Aspiration	hazard:	-					
Irritation ar	nd corrosion						
	Exposure tin	ne Sp	ecies	Evaluation	ı Me	ethod	Note
Skin corrosion/irritation:	-	-		-	-		No information available
Serious eye damage/irritation	-	-		-	-		No information available



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<u> </u>							
Sensitiza							
Dermal exposure	: No informatio	n available					
Inhalation exposure: No information available							
Sympto	ms related to the p	hysical, chemic	al and toxicolog	ical characteristi	CS		
Oral exposure: No information available							
Dermal exposure	: No informatio	n available					
Inhalation exposure:	No informatio	n available					
Eye exposure:	No informatio	n available					
Repeate	ed dose toxicity (su		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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Product code:	KR-OT-X**	Date of com	pilation:	tion: 14 November 2022		Version: 4	
Chronic inhalation	No information available	No information available	No information available	No information available	No informatio available	on -	
Specific	target organ toxic	city – repeated e	exposure (STOT	RE):			
		Specific effects		Target orga	n	Note	
Subacute oral	No info	rmation availabl	e No i	nformation availa	ble	-	
Subacute derma	l No info	rmation availabl	e No i	nformation availa	ble	-	
Subacute inhalat	ion No info	rmation availabl	e No i	nformation availa	ble	-	
Subchronic oral	No info	rmation availabl	e No i	nformation availa	ble	-	
Subchronic derm	nal No info	rmation availabl	e No i	nformation availa	ble	-	
Subchronic inhal	ation No info	rmation availabl	e No i	nformation availa	ble	-	
Chronic oral	No info	rmation availabl	e No i	nformation availa	ble	-	
Chronic dermal	No info	rmation availabl	e No i	nformation availa	ble	-	
Chronic inhalation	on No info	rmation availabl	e No i	nformation availa	ble	-	
:							
CMR ef	fects (carcinogenio	ity; mutagenicit	y; reproductive	toxicity)			
Carcino	genicity:		No informati	on available			
Mutage	enicity <i>in-vitro</i> :		No information available				
Genoto	xicity:		No information available				
Mutage	enicity <i>in-vivo</i> :		No informati	on available			
Germ c	ell mutagenicity:		No informati	on available			
Reprod	uctive toxicity:		No information available				
Summa propert	ry of evaluation ies:	of the CMR	No informati	on available			
11.2. Informa	ation on other haza	ards:					
11.2.1. Endocri	ne disrupting prop	perties:					
	wn endocrine disru ect human health.	upting propertie	S				
11.2.2. Other is	nformations:		•				
-							

SEC	TION	12. G	eneral	notes:
2EC	HON	12. G	enerai	notes

12.1. Toxicity



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Acute (short-teritoxicity	m)	Dose	Exposure time	Species	Method	Eval	uation	N	ote
Fish		LC ₅₀	96 hours	No information available	-	No inforr available	mation	-	
Crustacea:	Crustacea: EC ₅₀		48 hours	No information available	-	No inforr available	nation	-	
Algae/aquatic pl	ants	IC ₅₀	72 hours	No information available	-	No inforr available	nation	_	
Other organisms	5	-	-	-	-	-		-	
Chronic (long-te toxicity	rm)	Dose	Exposure time	Species	Method	Eval	uation	N	ote
Fish		LC ₅₀	96 hours	No information available	-	No inforr available	nation	-	
Crustacea:		EC ₅₀	48 hours	No information available	-	No inforr available	mation	-	
Algae/aquatic pl	Algae/aquatic plants IC ₅₀		72 hours	No information available	-	No information available		-	
Other organisms	5	-	-	-	-	-		-	
12.2. Persiste Abiotic	degra								
	De	egradation h	alf-lives	Method		E۱	/aluation		Note
Marine water	No ir	nformation a	vailable	No information av	No information available No		No information available		-
Fresh water	No ir	nformation a	vailable	No information av	No information available No inform		ation availabl	e	-
Air	No ir	nformation a	vailable	No information av	No information available No infor		nformation available		-
Soil	No ir	nformation a	vailable	No information av	No information available No inform		ation availabl	e	-
Biodegi	radatio	on							
% Degradation		Time (days	()	Method	Eva	luation	N	ote	
No information No			nation	information availab	le No ii	nformation le			mation
12.3. Bioaccu	ımulat	ive potential							
Octano	l-wate	er partition co	pefficient (lo	g Kow)					
Value	Conce	entration	рН	°C Method	E	valuation	1	Note	



Trade name:

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

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No informa available			inform lable	ation -		_	No in availabl	formation le		lo informa vailable	tion	No ii available	nformation
				<u> </u>	<u> </u>	<u> </u>						i	
	Bioco	ncent	ration 1	factor (BCI	=)								
V	alue			Species		N	1ethod			Evaluation		No	te
	No information No informa available available				No information available			No ii avail	nformation able		No informat available	ion	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
	Clause	.:											
	Cnror	iic eco	otoxicit	y	Ev	nocuro					: : : : : : : :		
	Valu	е		Dose		posure time	S	Species		Method	Evaluation		Note
Chronic	toxicit	y on f	fish	LC ₅₀	No infor avail	mation able		rmation lable	ir	lo nformation vailable		ormation ilable	-
Chronic crustace				EC ₅₀	1	No No information available available				o No formation information vailable available			-
				i.							i		
12.4.	Mobil	ity in	soil										
	Know	n or p	oredicte	ed distribu	tion in e	environm	ental c	ompartm	nents	:			
	No in	forma	ation av	ailable									
	Surfac	ce ten	sion:										
	Vá	alue		°C	С	oncentra	tion		Met	hod		Note	
			ormation ailable		informat ailable	tion	No information available		ion	-			
	Λ -!			.: -									
	Adsor	•	/ deso										
Transpo	rt		/D coef enry's co		lo	og Kow	Ev	aporatio	n rate	e Meth	od	ſ	Note



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	1						1	
Soil-wat	ter No	lable	information	No information available	No information available	No information available	-	
Water-a	r-air No information No information available No information available		No information available	No information available	-			
Soil-air	No avai	lable	information	No information available	No information available	No information available	-	
12.5.	Results o	f PBT a	and vPvB asses	sment				
	No inforr	mation	available					
12.6.	Endocrin	e disru	ıpting properti	es				
	No know	n end	ocrine disrupti	ng properties that	affect the environm	nent.		
12.7.	Other ad	verse (effects					
	No inforr	mation	available					
SECTIO	N 13. Dis	oosal	consideration	S				
13.1.	Waste	treatm	ent methods					
13.1.1.			aging disposal					
	Submit Protect		sposal to the l	egal person autho	rized by the Ministry	y of Environmental a	and Nature	
	FIOLECT	1011.						
13.1.2.	Waste	codes	/waste designa	tions according to	Low:			
	15 01 1 substar		ckaging that c	ontains residual h	azardous substances	s or is contaminated	l with hazardous	
13.1.3.	Waste	treatm	ent – relevant	information:				
	No info	rmatio	on available					
13.1.4.	Sewage	e dispo	osal – relevant	information:				
	Waste	must r	not be dispose	d of into the sewa	ge system.			
13.1.5.	Other o	Other disposal recommendations:						



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	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.						
13.1.6.	Relevant Community prov	visions:					
		gement Act, Ordinance on Waste Management, Regulation on categories, f waste with waste catalog and list of hazardous waste					
SECTION	N 14. Transport information	on					
	Transporting/shipment by r						
UN num		Not subject to transport regulations					
UN prop	er shipping name:	-					
	rt hazard class(es):	-					
Packing		-					
-	nental hazards:	-					
Special p	precautions for user:	-					
	Transporting/shipment by r	rail (RID)					
UN num		Not subject to transport regulations					
UN prop	er shipping name:	-					
	rt hazard class(es):	-					
Packing	group:	-					
Environn	nental hazards:	-					
Special p	precautions for user:	-					
	Transporting/shipment by i	nland waterways (ADN)					
UN num	ber:	Not subject to transport regulations					
UN prop	er shipping name:	-					
Transpor	t hazard class(es):	-					
Packing	group:	-					
Environn	nental hazards:	-					
Special p	precautions for user:	-					
	Transporting/shipment by s	sea (IMDG)					
UN num	ber:	Not subject to transport regulations					
UN prop	er shipping name:	-					
Transpor	t hazard class(es):	-					
Packing	group:	-					
Environn	nental hazards:	Not subject to transport regulations					



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Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (ICA	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	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations			
	Authorisations and/or res	trictions 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 793/9: and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 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 XVIII);		



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	National regulation:	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, Transport of Hazardous Substances Act
15.2.	Chemical safety assessment	
	None	

SECTIO	ON 16	6. Other information		
16.1.	Ind	ication of changes:	-	
16.2.	Abbreviations and acronyms:		ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative	
16.3.	Key literature references and source of data:		-	
16.4.	Classification and procedure 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)	
Classif	icatior	1	Classification procedure	
-				
16.5.	Rele	evant H statements (numl	per and full text)	
		H315	Causes skin irritation.	
	H:	H319	Causes serious eye irritation.	
		H335	May cause respiratory irritation.	
16.6.	Trai	ining advice:	-	
			** "X" in the product code marks different volumes (different packagings of the product)	
16.7.	Fur	ther 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

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

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

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

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

SECTIO	CTION 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*:						
	Not identified as hazardous substance						
2.1.2.	Additional information						
<u> </u>	-						
*For fu	ll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16				
2.2	Label elements						
	Product identification:	OXALIC ACID, 1	1% SOLUTION				
	Identification number:	-					
	Authorization number:	-					
	Hazard pictograms:	-					



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Trading name:	OXALIC ACID, 1% SOLUTION					
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	Signal word:	-	
	Hazard statements:	-	
	Precautionary statements:	-	
	Supplemetal hazard information (EU):	-	
2.3	Other hazards		
	Endocrine Disrupting Properties:		
	No known endocrine disrupting properties		
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.		

SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
-	-	-	Contains no hazardous substances	-

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



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Trading name:		OXALIC ACID, 1% SOLUTION			
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	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		
	-		

SECTIO	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 c	compressed air breathing apparatus and fireproof clothing.		
5.4	Additional information			
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.			

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



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

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

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	n:	Secure proper ventilation.		
	Measures to protect the environment:	leasures to protect the environment:			
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incon	e storage, including any incompatibilities			
	Technical measures and storage conditions:	well ventil	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	ırer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the conta			
	Advices for storage equipment:		e storage must be made of hard material; floors ast be resistant to chemicals. There must be no drain at directly leads into sewage system. Secure proper ntilation.		



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Trading name:		OXALIC ACID, 1%	SOLUTION		
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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. Exp	osure contr	ols/perso	nal pr	otection					
8.1 Contro	parameters								
Substai	nce	CA	S No		cupational exposure limit alues/short term values			Biological limit values	
					ppn	n	mg/m³		J
-			-		-		-	-	
		•		•		'			
Substance name	e: -								
EC No:	-	CAS No):	-					
DNEL	1								
				In	dust	trial			
Route of	Ac	ute		Acute			Chronic		Chronic
exposure:	effect	effect local effect systemi		ic	effect local			effect systemic	
Oral	-	-				-		-	
Inhalation	-		-			-			
Dermal	-		-			-		-	
Critical physical	parameters:	solubility,	flamm	ability, co	rrosi	vity:	-		
				Co	onsu	mer			
Route of	А	cute		Acute			Chronic		Chronic
exposure:	effe	ct local	effe	ct system	ic	effect local			effect systemic
Oral	-		-			-		-	•
Inhalation	-		-			-			
Dermal	-		-			-			
PNEC									
Environmental p	rotection tar	get				IEC			
Fresh water					no	inform	nation available		
Freshwater sedi	ments				no	inform	nation available		
Marine water					no	inform	nation available		
Marine sedimen	ts				no information available				



Food chain

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

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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		
0.2.1.	Appropriate engineering controls		Heatha product in well ventilated rooms. Heaparconal
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:		In accordance with Section 7.
	Organisational measures to prevenexposure:	t	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent expo	osure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.
8.2.2.	Personal protection equipment		
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.
8.2.2.2.	Skin protection		
		-	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 f impern	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No info	ormation available
8.2.3.	Environmental exposure controls		
	Substance/mixture related measures to prevent exposure:	See Se	ction 6



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

Colco Odo Melt Boili poin Flam Love Flasl Auto Deco pH: Kine Solu Parti	sical state: our: our/odour threshold: ting point / freezing point:	Value liquid purple brown characteristic/no information	Method No information available No information available
Colco Odo Melt Boili poin Flam Love Flasl Auto Decc pH: Kine Solu Parti	our: our/odour threshold:	purple brown	
Odo Melt Boili poin Flam Love Flasl Auto Deco pH: Kine Solu Parti	our/odour threshold:		No information available
Melt Boili poin Flam Love Flash Auto Deco pH: Kine Solu Parti		characteristic/no information	
Boili poin Flam Love Flash Auto Deco pH: Kine Solu	ting point / freezing point:	available	No information available
poin Flam Love Flash Auto Decc pH: Kine Solu	9 9	No information available	No information available
Love Flash Auto Decc pH: Kine Solu	ing point or initial boiling nt and boiling range:	No information available	No information available
Flasi Auto Deco pH: Kine Solu Parti	nmability:	No information available	No information available
Auto Deco pH: Kine Solu Parti	er and upper explosion limit:	No information available	No information available
Decc pH: Kine Solu Parti	h point:	No information available	No information available
pH: Kine Solu Parti	o-ignition temperature:	No information available	No information available
Kine Solu Parti	composition temperature:	No information available	No information available
Solu Parti		No information available	No information available
Parti	ematic viscosity:	No information available	No information available
	ubility:	No information available	No information available
	tition coefficient n- anol/water (log value):	No information available	No information available
Vapo	our pressure:	No information available	No information available
Den	nsity and/or relative density:	No information available	No information available
Rela	ative vapour density:	No information available	No information available
Parti	ticle 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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Product 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	Conditions to avoid:	No information available
10.5	Incompatible materials:	No information available
10.6	Hazardous decomposition products:	No information available

	icological information on hazard classes		n Regula	ation (EC) No 1272/20	008		
Acute tox				. ,			
Route of exposure:	Method	Species	Effec	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}		time	Results
Oral:	No information available	-	No in	formation available	_		-
Dermal:	No information available	-	No in	formation available	_		_
Inhalation:	No information available	-	No in	nformation available	-		-
Specific to	arget organ toxicity -		sure (ST				
	Specific	effects	Target organ				Note
Oral:	No information av	/ailable	No information availa		able	-	
Dermal:	No information av	⁄ailable	No information available		able	-	
Inhalation:	No information av	vailable		No information avail	able	-	
Aspiration	n hazard:	No	o inform	ation available.			
Irritation	and corrosion		. .				N
	Exposure t	ime	Specie	es Evaluation	Method		Note
Skin corrosion/irritation	n: -	-		-	-	-	
Serious eye damage/irritation	-	-		-	-	-	
Sensitizat	ion						
Skin sensitization:	No infor	mation availa	able.				
Respiratory sensiti		mation availa					



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Oral exposure:	No infor	mation available.				
Dermal exposure	e: No infori	mation available.				
Inhalation expos	ure: No infori	mation available.				
Eye exposure:	No infor	mation available.				
Repeate	ed dose toxicity	(subacute, subchro	onic, chronic)		,	,
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No informati available	No information available	No information available	No information available	No information available	-
Subacute dermal	No informati available	on No information available	No information available	No information available	No information available	-
Subacute inhalation	No informati available	on No information available	No information available	No information available	No information available	-
Subchronic oral	No informati available	on No information available	No information available	No information available	No information available	-
Subchronic dermal	No informati available	on No information available	No information available	No information available	No information available	-
Subchronic inhalation	No informati available	on No information available	No information available	No information available	No information available	-
Chronic oral	No informati available	on No information available	No information available	No information available	No information available	-
Chronic dermal	No informati available	on No information available	No information available	No information available	No information available	-
Chronic inhalation	No informati available	on No information available	No information available	No information available	No information available	-



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Trading name:		OXALIC ACID, 1% SOLUTION						
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Subacute oral	No information available		No information available	-		
Subacute dermal	No information available		No information available			
Subacute inhalation	No information available		No information available			
Subchronic oral	No information available		No information available			
Subchronic dermal	No information available		No information available			
Subchronic inhalation No information available			No information available			
			No information available			
Chronic oral No information available						
Chronic dermal	No information available		No information available	-		
Chronic inhalation	No information available		No information available	-		
CNAD (C.). (1				
	carcinogenicity; mutagenicit	<u> </u>				
Carcinogenici		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.				
Mutagenicity	ın vitro:					
Genotoxicity:	-					
Mutagenicity		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
Germ cell mu	tagenicity:					
Reproductive	toxicity:	Based on available data, the classification criteria are not met.				
Summary of properties:	evaluation of the CI	MR Based on met.	available data, the classifica	ation criteria are not		
1						
11.2 Information o	n other hazards:					
11.2.1. Endocrine dis	rupting properties:					
components disrupting pr Article 57(f) regulation (E	The substance/mixture does not components considered to have endocidisrupting properties according to REA Article 57(f) or Commission Delega regulation (EU) 2017/2100 or Commiss Regulation (EU) 2018/605 at levels of 0.19 higher.					
11.2.2. Other informa	ations:					
<u> </u>						

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						
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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

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	-

_					
R	$i \cap A$	ea	rad	1	inn
D	IOU	cu	ıau	аи	UI

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



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Trading	name:				0	XALIC	ACID,	1% SOLUT	ION			
Product	t code:	OKS1	1-OT-X**		Date	of co	mpilati	on: 21 D	ec 2022	,	Version:	4
		I										
12.3	Bioaccum	nulative	potential									
	Octanol-	water pa	rtition coef	ficient (log Kow)						
Value	e Co	oncentra	ition p	рΗ	°C	М	ethod	Eval	uation		Note	
_	-		-		-	_		-		-		
	Rioconce	ntration	factor (BCF)								
Va	alue	Huduon	Species	,		Method		Evalua	tion		Note	
No information No informa		nation	No info			No informa						
available		availa			availab			available		-		
	Chronic e	ecotoxici	ty			***		1				
	Value		Dose		osure ime	Sp	ecies	Method	Evalu	ation	Note	
Chronic	toxicity o	n fish	LC ₅₀	No infor availa	mation able	No infor availa	mation able	No information available	No inform availab		-	
Chronia	+ a vi ai + v a			No		No		No	No			
	toxicity or a (<i>Daphni</i>		EC ₅₀	infor availa	mation	infor availa	mation	information available	inform availab		-	
				avalle	аріе	avalle	аріе	avallable	avallab	ne		
12.4	Mobility	in soil										
			ed distribut	ion in e	environm	nental (compart	ments:				
	No inforr	·····					.					
	Surface t	ension:										
	Value		°C	C	oncentra	ation		Method			Note	
	No informati available		o formation vailable		informa ailable	ition	No inf availal	ormation ole	-			
									i			



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	Adsorption / desorption				
Transpo	ort A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wa	nter No information available	No information available	No information available	No information available	-
Water-a	air No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
	:				
12.5	Results of PBT and vPvB asse	essment			
	The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulation		
12.6.	Endocrine disrupting proper	ties			
	The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulation		
12.7	Other adverse effects				
	No further relevant informat	ion available.			
CECTIO	N 42 B'				
	ON 13. Disposal consideratio				
13.1	Waste treatment methods				
13.1.1.	Product/Packaging dispos	al:			
	Submit for disposal to the Protection.	legal person autho	rized by the Ministry of	Environmental	and Nature
13.1.2.	Waste codes/waste design	ations according to	o Law:		
	15 01 10*: Packaging that substances			is contaminated	d with hazardous
12.12					
13.1.3.	Waste treatment – relevan	t information:			



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Trading name:		OXALIC ACID, 1% SOLUTION							
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	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 provis	sions:			
	Disposal must be made acc	ording to official regulations.			
SECTION	N 14. Transport information				
	Transporting/shipment by ro	ad (ADR)			
UN num	ber:	Not subject to transport regulations			
UN prop	er shipping name:	-			
Transpoi	t hazard class(es):	-			
Packing	group:	-			
Environn	nentally hazardous:	-			
Special p	precautions for user:	-			
	Transporting/shipment by rai	il (RID)			
UN number:		Not subject to transport regulations			
UN proper shipping name:		-			
Transpoi	t hazard class(es):	-			
Packing	group:	-			
Environn	nentally hazardous:	-			
Special p	precautions for user:	-			
	Inland waterway transport (A	DN)			
UN num	ber:	Not subject to transport regulations			
UN proper shipping name:		-			
Transport hazard class(es):		-			
Packing group:		-			
Environmentally hazardous:		-			
Special p	precautions for user:	-			
	Transporting/shipment by sea (IMDG)				
UN number:		Not subject to transport regulations			



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UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-			
Transporting/shipment by air (ICA	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/or rest	rictions of use			
	Authorizations:	-			
	Restrictions:	-			
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			



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	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2	Chemical safety assessment				
	None				

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



SAFETY DATA SHEET

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

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



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

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

SECTI	ON 1: Identification of	the subst	ance/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	POTASS	SIUM PERMANG	SANATE, 0.5% SOLUTION	
	Chemical name:	-			
	Catalogue number:	KP05-O	T-X**		
1.2.	Relevant identified us	es of the s	substance or mix	xture and uses advised against	
	Uses:		For use with	special staining kits.	
	Uses advised against:		Only the ider	ntified uses are advised.	
	device, registered at the Agency for Medic		is intended for use only as an <i>in vitro</i> diagnostic medical tered at the Agency for Medicinal Products and Medical there is no reason to use it for other purposes		
1.3.	Details of the supplie	r of the sat	fety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent	oerson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection a	nd Rescue	Directorate:	112	
	Medical information: Other information:			+385 1 2348 342	
				-	

SECTIO	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 categor	y code:	Hazard statements*:		
	Aquatic Chronic 3 H412				
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-st	atements: see S	ection 16		
2.2.	Label elements				
	Product identification:	POTASSIUM	PERMANGANATE, 0.5% SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION						
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	Signal word:	-							
	Hazard statements: H412 Harmful to aquatic life with long lasting effects.								
	Precautionary statements:	P273 Avoid release to the environment P501 Dispose of contents/container in accordance with local regulations.							
	Further information:	-							
2.3.	Other hazards								
	Endocrine Disrupting Proper	Endocrine Disrupting Properties:							
	No known endocrine disrupting properties								
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.								

SECTION 3. Co	SECTION 3. Composition/information on ingredients									
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)						
7722-64-7/ 231-760-3/ 025-002-00-9	-	0.5 %	potassium permanganate	Oxid. Solid 2; H272 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410						

SECTIO	ECTION 4. First aid measures						
4.1.	Description of first aid measures						
	General notes:		-				
	Following inhalation:		No information available				
	Following skin contact:		No information available				
	Following eye contact:		No information available				
	Following ingestion:		No information available				
	Self-protection of the first aider:		Treat symptomatically.				
4.2.	Most important symptoms and	d effe	ects, both acute and delayed				
	Following inhalation:	No ir	nformation available				
	Following skin contact:	No ir	information available				
	Following eye contact:	No ir	information available				
	Following ingestion:	No information available					
4.3.	Indication of any immediate m	edic	al attention and special treatment needed				
	-						

SECTION 5 Firefighting measures



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Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION							
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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 of Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. fire with water spray or vapor.					
5.4.	Additional information						
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.						

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



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

See Section 7 for information about secure handling.

See Section 8 for information about personal protective equipment.

See Section 13 for information about containment.

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

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



										Page 5 of 16
Trading nar	me:		P	OTAS	SSIUM	PERMAN	GANA	ATE, 0.5	% SOLU	ΓΙΟΝ
Product cod	de:	KP05-O	T-X**		Date o	f compila	tion:	21 De	ec 2022	Version: 6
			1							
Potassium p	ermang	anate	7722-6	54-7		-		5	No infor	mation available
Substance name:	-									
EC No: - CAS No: -			-							
DNEL										
					Inc	lustrial				
Route of		/	Acute		Acut	е		Chro	nic	Chronic
exposure:		effe	ect local	е	ffect sys	temic		effect	local	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			_			-
Critical physi	ical para	ameters:	solubility, fla	mmab	ility, cor	rosivity:		-		
					Co	nsumer	1			
Route of Acute		Acute			Chronic			Chronic		
exposure:	oosure: effect local		е	effect systemic		effect local		local	effect systemic	
Oral		-		-			-			-
Inhalation		-		-			-		-	
Dermal		-		-			-			-
PNEC										
Environment	tal prote	ection tar	get			PNEC			•	
Fresh water						No inform				
Freshwater s		its				No inform				
Marine wate						No information available				
Marine sedir	nents					No information available				
	eme in a	2011222	roatmont			No information available				
Microorgani Soil (agricult		sewage tr	eatment			No information available No information available				
Air	.urai)					No information available				
All						INO IIIIOII	Hatioi	i availab	ie	
8.2.	Exposu	re contro	ls							
	•		jineering cor	ntrols						
			ure related		Har d		11		ala '	las managarat agricultura
	measur		vent exposu	ire	Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.					
	Structu exposu		ures to preve	ent	No info	rmation av	/ailable	е		



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

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

SECTI	SECTION 9. Physical and chemical properties						
9.1.	Information on basic physical and che	Information on basic physical and chemical properties					
		Value	Method				
	Physical state:	liquid	No information available				
	Colour:	dark purple	No information available				
	Odour/odour threshold:	no odor/no information available	No information available				
	Melting point / freezing point:	No information available	No information available				
	Boiling point or initial boiling point and boiling range:	No information available	No information available				



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Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version: 6		

	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
	рН:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	Other information		
	-		

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

SECTION 11. Toxic	SECTION 11. Toxicological information								
11.1. Information	Information on toxicological effects								
Acute toxi	Acute toxicity:								
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	-	-				



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Trading name:		POTASSIUM PERMANGANATE, 0.5% SOLUTION							
Product code:	KP05-OT-X**	Da	Date of compilation		c 2022 V	ersion:	6		
		:			1	1			
Inhalation	No information	on -		LC ₅₀	-		_		
exposure:	available								
			(0= 0= 0=						
Specific	target organ toxicit		osure (STOT SE):						
	-	ecific effects		Target organ		No	te		
Oral exposure:		ation available		mation availab					
Dermal exposure:		ation available		mation availab					
Inhalation exposu	ıre: No informa	ation available	No infor	mation availab	ole -				
Respiratory irritation: No information available									
Irritation	and corrosion				:				
	Exposure tim	e Speci	ies Eva	aluation	Method	No	te		
Skin irritation:	-	-	-						
Eye irritation:									
Sensitiza	ition								
Dermal exposure:	No information	available							
Inhalation	No information	availablo							
exposure:	NO IIIIOIIIIatioii	avaliable							
Symptor	ms related to the pl	nysical, chemic	al and toxicolog	ical characteri	stics				
Oral exposure:	No information	available							
Dermal exposure:	No information	available							
Inhalation exposure:	No information	available							
Eye exposure:	No information	available							
Repeate	d dose toxicity (sub	acute, subchro	onic, chronic)						
	Dose	Exposure time	Species	Method	Evaluation	Note	e		
Subacute oral	No information available	No information available	No information available	No informatio n available	No informatio available	n			
Subacute dermal	No information available	No information available	No information available	No informatio n available	No informatio available	n _			



Subacute

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No

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No information

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

information

No

No

information

No information

Mutagenicity in-vivo:

inhalation	availa	ble	available	_	lable	n available	available	Э	-	
Subchronic oral	No i	information ble	No information available		rmation lable	No informatio n available	No infor		-	
Subchronic dermal			No information available			No informatio n available	No infor		-	
Subchronic inhalation	No i availa	information ble	No information available	formation inform		No informatio n available	No infor		-	
Chronic oral	Chronic oral No information available		No information available	No mation information		No informatio n available	No infor		-	
Chronic dermal	No i availa	information information info			rmation lable	No informatio n available	No information available		-	
Chronic No information available		No information available	No information available		No informatio n available	No infor		-		
c :c					(CTOT	DE)				
Specific	target	1	y – repeated e	xposu	ire (STOT				Nata	
Subacute oral		-	ecific effects		No infor	Target organ mation availab	No.	_	Note	
Subacute dermal	 		ation available			mation availab		_		
Subacute inhalat			ation available			No information available -				
Subchronic oral			ation available			No information available		-		
Subchronic derm	nal	No informa	ation available		No information available		-			
Subchronic inhal	ation	No informa	ation available			No information available		-		
Chronic oral		No informa	ation available		No information available		_			
Chronic dermal		No informa	ation available		No information available		-			
Chronic inhalation No information			ation available		No infor	mation availab	ole	-		
CMR eff	fects (ca	arcinogenicit	y, mutagenicit	v, repi	roductive	toxicitv)				
Carcino				<u> </u>	on availab					
Mutage					on availab					
Genoto	·····				on availab					

No information available



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

	Germ cell mutagenicity: No i	nformation available
	Reproductive toxicity: No i	nformation available
	Summary of evaluation of the CMR pro	pperties: -
11.2	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	The substance/mixture does no contain components considered to have endocrine disrupting properties according to REACH Article 57(f) of Commission Delegated regulation (EU 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% of higher.	o es or - J) - n
11.2.2.	Other informations:	
	-	

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	-	1
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-
Microorganisms	LC ₅₀	72 hours	-	-	-	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	-	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-



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6						
3						
Abiotic degradation						
Note						
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alue	Dose	Exposure time	Spe	ecies	Method	Evalua	ation	Note
city on fish	LC ₅₀	No information available			No information available			_
-	EC ₅₀	No information available			No information available			-
bility in soil								
own or pred	icted distributi	on in environme	ental c	ompart	ments:			
information	available							
face tensior	1:							
Value	°C	Concentra	ition		Method			Note
ormation		on No information available	n	No info	ormation ava	ilable	-	
A/D co	oefficient	log Kow		Evapora	ation rate	Method		Note
No	information			o inform	ation	No informatio	n -	
available		available	ava	ailable		available		
No available	information	No information	n No	ailable o inform ailable	ation	available No informatio available	n -	
	information face tension Value ormation illable sorption / de A/D ce Henry's	city on fish LC50 city on paphnia) bility in soil own or predicted distribution available face tension: Value ormation available face tension: Alphoioride available sorption / desorption Alphoioride available sorption / desorption Alphoioride available	city on fish City on fish City on paphnia Comation paphnia Commation paphnia No information paphnia	city on fish EC ₅₀ No Information finformation available Cinformation available Face tension: Value Concentration No Information finformation information available Cormation A/D coefficient Henry's constant No Information finformation available Concentration No Concentration finformation finformation available Corption / desorption A/D coefficient Henry's constant Concentration finformation available Concentration finformation finformation finformation available Concentration finformation finformation finformation finformation finformation available Concentration finformation finfor	city on fish City on fish City on fish City on paphnia No information available Concentration No information available Corption / desorption A/D coefficient Henry's constant Concentration No information available Concentration No information available	time Species Method time No No information available available city on Paphnia PC Concentration available sorption No information available No information available comparison Method comparison available comparison available comparison Method comparison available comparison available	city on fish	time Species Method Evaluation Comparison Comparison

12.6. Endocrine disrupting properties



Trading name:

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Product	code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version: 6		
	according		ot contain components considere f) or Commission Delegated regules of 0.1% or higher.				
12.7.	Other ad	verse effects					
	No inforr	mation available					
SECTION	N 13. Dis _l	posal considerations					
13.1.		treatment methods					
13.1.1.	Produc	t/Packaging disposal:					
	Submit Protect		gal person authorized by the Min	istry of Environmen	ital and Nature		
13.1.2.	Waste	codes/waste designati	ons according to Law:				
	No information available						
13.1.3.	Waste 1	treatment – relevant ir	nformation:				
	No info	ormation available					
13.1.4.	Sewage	e disposal – relevant in	formation:				
	Waste i	must not be disposed	of into the sewage system.				
13.1.5.	Other o	disposal recommendat	ions:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collect authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Sut the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places with ignition may occur.						
13.1.6.	Relevar	nt Community provisio	ns:				
	-						
SECTION	N 14. Trai	nsport information					
	-	ting/shipment by road					
UN num	ber:		3082	ubstanco liquid	s (potassium		
UN prop	er shippir	ng name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)				
Transpoi	rt hazard	class(es):	9				



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



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

SECTIO	ECTION 15. Regulatory information						
15.1.	Safety, health and environ	mental regulations/legislation specific for the substance or mixture					
	EU regulations	EU regulations					
	Authorization and/or restr	ictions of use					
	Authorizations:	-					
	Restrictions:	-					
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16					
		December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);					
	Information according 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 assessmer	nt					
	None						

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



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16.2.	Abbreviations and acronyms:		ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative				
16.3.	Key literature references and source of data:		-				
16.4. Classification and procedure use 1272/2008 (CLP)			ed to derive the classification for mixture according to Regulation (EC)				
Classifi	cation	Cla	Classification procedure				
-	:	-					
16.5.	Relevant H sta	tements (number	and full text)				
	272		ay intensify fire; oxidiser.				
	302		armful if swallowed.				
	H: 400		ery toxic to aquatic life.				
	410		ery toxic to aquatic life with long lasting effects.				
	413	M	ay cause long lasting harmful effects to aquatic life.				
16.6.	Training advic	e: -					
			"X" in the product code marks different volumes (different packagings of e product)				
16.7.	16.7. Further information: V		e are not responsible for consequences in case of failure to comply with structions for use or improper use of the product described in this aterial safety data sheet.				

Α	NI	NI	=,	/-
~	14	17	ᅩᄼ	١.

Exposure scenario resulting to Chemical safety assessment

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SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier	Product identifier			
	Trading name:	SILVER AMI	MONIA RE	AGENT	
	Chemical name:	-			
	Catalogue number:	SAR-OT-X*	*		
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against	
	Uses:		For use	with Von Kossa ana Masson Fontana staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advi	y uses advised against: medical device, registered at the Agency for Me		duct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes.	
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:	Supplier:		BioGnost Ltd.	
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039 <u>msds@biognost.hr</u>		
	Telephone number:				
	Telefax.:				
	e-mail of competent p	erson:			
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information: Other information:			+385 1 2348 342	
				-	

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance of	or mixture			
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Aquatic Chronic 3		H412		
2.1.2.	Additional information				
	-				
*For ful	I text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	SILVER AMMON	IIA REAGENT		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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	Signal word:	-	
	Hazard statements:	H412 Harmful to aquatic life with long lasting effects.	
	Precautionary statements:	P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local regulations.	
	Supplemetal hazard information (EU):	-	
2.3	Other hazards		
	Endocrine Disrupting Prope	erties:	
	No known endocrine disrupting properties		
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.		

SECTION 3. Cor	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
7761-88-8/ 231-853-9/ 047-001-00-2	-	< 1 %	silver nitrate	Ox. Sol. 2; H272 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		
1336-21-6/ 215-647-6/ 007-001-01-2	-	< 1 %	ammonia	Skin Corr. 1B; H314 Aquatic Acute 1; H400		

SECT	SECTION 4. First aid measures			
4.1	Description of first aid measu	ires		
	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 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.		



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	Self-protection of the first aider:	-
4.2	Most important symptoms and ef	fects, 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:	Danger of gastric perforattion.
4.3	Indication of any immediate medical attention and special treatment needed	
	-	

SECTIO	SECTION 5. Firefighting measures			
5.1	Extinguishing media			
	Suitable extinguishing media:	Water spray, foam, dry powder, CO ₂ or alcohol resistant foam.		
	Unsuitable extinguishing media:	Water with full jet.		
5.2	Special hazards arising from the su	ubstance or mixture		
	Hazardous combustion products:	Nitrogen oxides (NOx). During heating or in case of fire poisonous gases are produced.		
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	ent 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.		
	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:			



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	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for cor	ntainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal 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.		
	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:		-		
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:		ghtly closed and upright set containers at ures ranging from +2 to +8 °C.		
	Packaging materials:	Manufactu containers	urer's original packaging. Avoid metal s.		
	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			



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	Further information	on storage conditior	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 spe	cific solutions:	-
SECTIO	ON 8. Exposure contro	ols/personal protec	ction
8.1	Control parameters		
			Occupational exposure limit

8.1 Control parameters					
Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values	
		ppm	mg/m³	-	
-	-	-	-	-	
Substance name: -					

Substance name:	-			
FC No:	_	CAS No:	_	

DNEL

Industrial

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

Critical physical parameters: solubility, flammability, corrosivity:

Consumer

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

PNEC

Environmental protection target	PNEC
Fresh water	no information available
Freshwater sediments	no information available
Marine water	no information available
Marine sediments	no information available



Food chain

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no information available

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	Technical measures to prevent exposure:	See Se	ction 6		
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.		
	Structural measures to prevent exposure:				
	Substance/mixture related measures to prevent exposure:				
8.2.3.	Environmental exposure controls	5			
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.2.3.	Respiratory protection:		quired under normal conditions of use. Use suitable tory protective device when high concentrations are t.		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) ang sleeves (EN 340) and shoes that cover the entire foot.		
	Hand protection:	Protect	tive nitrile gloves, >0.11 mm thick (EN 374).		
8.2.2.2.	Skin protection	i			
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.		
8.2.2.	Personal protection equipment				
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
	Structural measures to prevent exposure: Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.		
			In accordance with Section 7.		
	Substance/mixture related measure prevent exposure during identification		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
8.2.1.	Appropriate engineering control	S			
8.2	Exposure controls				
			·		
Air			no information available		
Soil (agric			no information available		
Microorganisms in sewage treatment			no information available		



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1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	mild ammonia 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:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available

SECTIO	SECTION 10. Stability and reactivity						
10.1	Reactivity:	See subsections 10.3 through 10.5.					
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.					
10.3	Possibility of hazardous reactions:	No 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					



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SECTION 11. Toxico							
		classes as defined in	Regulation	(EC) No 1272	2/2008		
Acute toxic	ity:						
Route of exposure:	Method	Species	i	2 ₅₀ /LC ₅₀ or E _{mix}	Exposure t	ime	Results
Oral:	-	No information available		No information available		n	-
Dermal:	-	No information available			No informatio available	on	-
Inhalation:	-	No information available			No informatio available	n	-
Specific tar	get organ to	xicity – single expos	ure (STOT S	SE):			
	S	pecific effects		Target o	rgan		Note
Oral:	No informa	tion available	No i	nformation a	vailable	-	
Dermal:	No informa	tion available	No i	nformation a	vailable	-	
Inhalation:	No informa	tion available	No i	nformation a	vailable	-	
Aspiration I	d corrosion		informatio				
	Ехро	osure time	Species	Evaluatio	n Method		Note
Skin corrosion/irritation:	-	-		-	-	-	
Serious eye damage/irritation	-	-		-	-	-	
Sensitizatio	n						
Skin sensitization:	-						
Respiratory sensitiza	tion: -						
Symptoms	related to th	e physical, chemical	and toxico	logical charac	teristics		
Oral exposure:	No inforr	mation available.					
Dermal exposure:	No inforr	mation available.					
Inhalation exposure:	No inforr	nation available.					



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Repeate	d dose toxicity (sub	acute, subchro	nic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	n Note
Subacute oral	No information available	No information available	No information available	No information available	No informatic available	on -
Subacute dermal	No information available	No information available	No information available	No information available	No informatic available	on -
Subacute inhalation	No information available	No information available	No information available	No information available	No informatic available	on -
Subchronic oral	No information available	No information available	No information available	No information available	No informatic available	on -
Subchronic dermal	No information available	No information available	No information available	No information available	No informatic available	on -
Subchronic inhalation	No information available	No information available	No information available	No information available	No informatic available	on -
Chronic oral	No information available	No information available	No information available	No information available	No informatio available	on -
Chronic dermal	No information available	No information available	No information available	No information available	No informatio available	on -
Chronic inhalation	No information available	No information available	No information available	No information available	No informatic available	on -
Specific	target organ toxicit	· · · · · · · · · · · · · · · · · · ·	·			NI-+
Subacute oral	No informa	Specific effec	.ts	Target o		Note
Subacute orai Subacute dermal		ation available		No information		-
Subacute dermai		ation available		No information		_
Subacute iiiialati Subchronic oral		ation available		No information		_
		ation available		No information		_
		ation available		No information		



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Chronic	oral No information available		No information a	available	-	
Chronic	dermal	No information available	No information a	available	-	
Chronic	inhalation	No information available	No information a	available	-	
	CMR effects	(carcinogenicity; mutagenicity; re	productive toxicity)			
	Carcinogenic	ity:	No information available.			
	Mutagenicity	ı in vitro:	No information available.			
	Genotoxicity	•	No information available.			
	Mutagenicity	ı in vivo:	No information available.			
	Germ cell mu	utagenicity:	No information available.			
	Reproductive	e toxicity:	No information available.			
	Summary coproperties:	of evaluation of the CMR	No information available.			
	·					
11.2.	Information (on other hazards:				
11.2.1.	Endocrine di	srupting properties:				
	No known e that affect hu	endocrine disrupting properties uman health.				
11.2.2.	Other inform	ations:				
	-					

SECTION 12. Ecologi	SECTION 12. Ecological information									
12.1 Toxicity										
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC ₅₀	96 hours	Leuciscus idus (Golden orfe)	-	-	0.011 mg/l (silver nitrate)				
Crustacea:	EC ₅₀	48 hours	Daphnia magna (Water flea)	-	-	0.0082 mg/l (silver nitrate)				
Algae/aquatic plants	IC ₅₀	4 days	Pseudokirchner iella subcapitata (green algae)	-	-	0.19 mg/l (silver nitrate)				
Other organisms	-	_	-	-	-	-				
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				



Persistence and degradability

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

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Trading name:		SILVER AMMONIA REAGENT					
Product code:	SAR-OT-X**	Date of compilation:	21 Dec 2022	Version:	6		

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	-	-	-	-	_	-

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	-

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

Oct	tanol-water partition	coefficier	it (log Kow	r)		
Value	Concentration	рН	°C	Method	Evaluation	Note
	-	-	-	-	-	-



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Trading name:		SILVER AMMONIA I	REAGENT		
Product code:	SAR-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

V	/alue		Species		N	1ethod		Εν	/aluatio	on		Note
No information available		No availa	inform able	nation No inform available				information ailable		-		
	Chronic e	ecotoxic	ity									
	Value		Dose		osure ime	Spec	cies	Meth	nod	Eval	uation	Note
Chronic	c toxicity or	n fish	LC ₅₀	No infori availa	mation able	No informa availab		No informa availab		No inforr availa	mation Ible	-
	c toxicity or ea (<i>Daphni</i>		EC ₅₀	No infori availa	mation able	No informa availab		No informa availab		No inforr availa	nation Ible	-
12.4	Mobility	in soil										
	Known o	r predic	ted distributi	on in e	environm	ental co	mpart	ments:				
	Known o	r predic		on in e	environm	ental co	mpart	ments:				
	Known of No inform	r prediction a	available				mpart		nd .			Note
	Known o	r prediction a ension: Non ir		Co	environm oncentra informat ilable	tion tion I		Metho		-		Note
	Known of No information Surface to Value	r prediction a ension: Non ir	°C lo nformation	Co	oncentra informat	tion tion I	No inf	Metho		-		Note
	Known of No information Surface to Value	r prediction a ension: Non ir	°C lo nformation vailable	Co	oncentra informat	tion tion I	No inf	Metho		-		Note
Transpo	Known of No information available Adsorption	nation a ension: Non ir an	°C lo nformation vailable orption	No ava	oncentra informat	tion I	No infavailab	Metho	1	Method		Note
	Known of No informati available Adsorption ort No No No Informati available	on / des	°C lo nformation vailable orption efficient	No ava	oncentra informat ilable og Kow	tion tion I	No infavailab	Metho ormation ole on rate	1	Method	d	
Transpo	Known of No informati available Adsorption ort Hone air No informati available	on / des A/D coellenry's ellable	°C lo nformation vailable orption efficient constant	No ava	oncentra informat ilable og Kow nformatic able	Evalum No i avai	No infavailab	Metho ormation on rate	No ir	Method nforma able nforma	d	



UN number:

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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 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 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.	Trading	g name:		SILVER AMMONIA	REAGENT	
toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6. Endocrine disrupting properties The substance/mixture does not contain components considered to have endocrine disrupting propertie according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7. Other adverse effects No information available SECTION 13. Disposal considerations 13.1.1 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 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 collectors authorized by the ministry in charge. 13.1.6. Relevant Community provisions: - SECTION 14 TRANSPORT INFORMATION	Produc	ct code:	SAR-OT-X**	Date of compilation:	21 Dec 2022	Version:
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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: - SECTION 14 TRANSPORT INFORMATION	13.1.3.	Waste t	reatment – relevant inf	ormation:		
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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: - SECTION 14 TRANSPORT INFORMATION	13.1.4.		· · · · · · · · · · · · · · · · · · ·			
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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: - SECTION 14 TRANSPORT INFORMATION	13.1.5.	Other d	lisposal recommendation	ons:		
SECTION 14 TRANSPORT INFORMATION		authori	zed by the ministry in c	harge. Do not dispose of the pa	ackaging into the se	
SECTION 14 TRANSPORT INFORMATION	13.1.6.	Relevar	nt Community provision	ns:		
		-				
	SECTIO					

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

amended by Regulation (EU) No. 1907/2006

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Trading name:	SILVER AMMONIA REAGENT				
Product code:	SAR-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (RI	ID)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (ICA	AO-TI/IATA-DGR)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)
Transport hazard class(es):	9
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-



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

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Trading name:		SILVER AMMONIA	REAGENT		
Product code:	SAR-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

Further information: Packages smaller than or equal to 5 kg / L, not dangerous goods of Class 9.

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

SECTION 16. Other information	
16.1 Indication of changes:	-



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

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Trading name:		SILVER AMMONIA	REAGENT		
Product code:	SAR-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

16.2	Abl	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.	Key literature references and source of data:		-		
16.4.	Classification and procedure 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)		
Classifi	Classification		Classification procedure		
_	_		-		
16.5.	Rel	evant H statements (numl	per and full text)		
		272	May intensify fire; oxidiser.		
		314	Causes severe skin burns and eye damage.		
	H:	400	Very toxic to aquatic life.		
		410	Very toxic to aquatic life with long lasting effects.		
		412	Harmful to aquatic life with long lasting effects		
16.6.	Training advice:		-		
16.7.	16.7. Further information:		** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with		
			instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trading name:	S	ODIUM THIOSULFATE, 5% SOLUTION			
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTI	ON 1. Identification of	the substa	nce/mixture	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	SODIUM	1 THIOSULFATE	THIOSULFATE, 5% SOLUTION	
	Chemical name:	-			
	Catalogue number:	NT5-OT	-X**		
1.2.	Relevant identified us	es of the su	ubstance 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 person:		msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection a	nd Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	tion (EC) No 12	.72/2008 (CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous subst	ance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16		
2.2.	Label elements				
	Product identification:	SODIUM THI	DSULFATE, 5% SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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Trading name:	S	ODIUM THIOSULFATE, 5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

SECTION 3. Co	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
7772-98-7/ 231-867-5/ -	-	5 %	sodium thiosulphate	not classified	

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



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Trading name:	S	ODIUM THIOSULFATE, 5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

SECTIO	SECTION 5. Firefighting measures			
5.1.	Extinguishing media			
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam		
	Unsuitable extinguishing media:	water jet		
5.2.	Special hazards arising from the se	ubstance or mixture		
	Hazardous combustion products:	No information available		
5.3.	Advice for firefighters			
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. 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.			

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



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION					
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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

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



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SECTION 8. Exposur	e contr	ols/persona	al protec	tion				
8.1. Control para	meters							
					cupational exposure limit		Biological limit values	
			ppm	mg/m³				
-		-			-	-	No information available	
Substance								
EC No: -		CAS No:	-					
DNEL								
				Inc	dustrial			
Route of	A	Acute		Acut	e	Chronic	Chronic	
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-	-			-	-		
Critical physical para	meters: s	solubility, fla	ammabilit	ty, cor	rosivity:	-		
	ı			Co	nsumer		1	
Route of				Acut		Chronic	Chronic	
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic	
Oral	-	-			-	-		
Inhalation	-	-			-	-		
Dermal -			-			-	-	
PNEC					I			
Environmental protection	tion tar	get			PNEC			
Fresh water					No information available			
Freshwater sediments				No information available				
Marine water				No information available				
Marine sediments				No information available				
Food chain					No information available			
Microorganisms in sewage treatment				No information available				
Soil (agricultural)				No information available				
Air					No information available			



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

SECTIO	SECTION 9. Physical and chemical properties			
9.1.	Information on basic physical and chem	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
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available
Other information		

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

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



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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	inale exposure	(STOT SF)		
эрсете саг			Target organ		Note
Specific effects Oral exposure: No information available			No information available	-	
Dermal exposure:	No information	available	No information available	_	
Inhalation exposure:	No information	available	No information available	_	
Respiratory	irritation:	No inf	ormation available		
Irritation ar	nd corrosion				
milation ar	Exposure time	Species	Evaluation	Meth od	Note
Skin irritation:	-	-	-		
Eye irritation:	-	-	-		
Sensitizatio	n				
Dermal exposure:	No information avai	lable			
Inhalation	No information avai	lable			
exposure:					
exposure:	related to the physic	al, chemical an	d toxicological characterist	ics	
exposure: Symptoms	related to the physic		d toxicological characterist	ics	
Symptoms Oral exposure:	1	vailable	d toxicological characterist	ics	
exposure:	No information a	vailable vailable	d toxicological characterist	ics	



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

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

Specific target	organ toxicity – repeated expo	JSUIE (STOT NL).	
	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-



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Trading name:		SODIUM THIOSULFATE	, 5% SOLUTION	
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

Chronic	inhalation	No informa	tion available	No information available	-
	CMR effects (c	carcinogenicity	, mutagenicity, r	eproductive toxicity)	
	Carcinogenicit	:y:	Based on av	ailable data, the classification criteria	a are not met.
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criteria	a are not met.
	Genotoxicity:		Based on av	ailable data, the classification criteria	a are not met.
	Mutagenicity (in-vivo:	Based on av	ailable data, the classification criteria	a are not met.
	Germ cell mut	agenicity:	Based on av	ailable data, the classification criteria	a are not met.
	Reproductive	toxicity:	Based on av	ailable data, the classification criteria	a are not met.
11.2	Information o	n other hazaro	s:		
11.2	Information o	n other hazard	s:		
11.2.1.	Endocrine disr				
	The substar contain com have endocri according to Commission E 2017/2100 or (EU) 2018/60 higher.	ponents con ne disrupting REACH Artic Delegated reg Commission	properties le 57(f) or ulation (EU) Regulation		
	Other informa	tions	·		
11.2.2.	Other informa	tions.			

SECTION 12. Ecological information

Toxicity 12.1.

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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Trading name:	S	ODIUM THIOSULFATE	, 5% SOLUTION		
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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	-

2100	laara	dation
DIU.	ecnac	iaucii

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

12.3. Bioaccumulative potential

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

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

Bioconcentration factor (BCF)



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	Value		Species	Me	ethod	Evaluation		Note		
No info	ormation ble	No availa	informati able	on No inform available	nation	No information available	No information available		ailable	
	Chronic	ecotoxic	rity							
	Value		Dose	Exposure time	Species	Method	Eva	luation	Note	
Chroni	c toxicity o	on fish	LC ₅₀	No information available	No information available	No information available	No info	ormation lle	-	
	ic toxicity o cea (<i>Daphn</i>		EC ₅₀	No information available	No information available	No information available	No info	ormation lle	-	
10.1										
12.4.	Mobility in soil Known or predicted distribution in environmental compartments:									
12.4.	-		tad dictributi	ion in onvironm	ontal compart	tmonts:				
12.4.	Known c	or predic		on in environm	ental compart	tments:				
12.4.	Known o	or predic		on in environm	ental compart	tments:				
12.4.	Known of No infor	or predic mation a tension:						N	ote	
12.4.	Known o	rmation attension: e kion ir	available	Concentra No informatavailable	tion	Method formation avail	able	N	ote	
12.4.	Known of No informat available	r prediction attension: e kion ir a	°C Io oformation vailable	Concentra No informa	tion	Method	able		ote	
Transp	No information available	tension a tension ir a a a a a a a a a a a a a a a a a a	°C Io oformation vailable	Concentra No informa	tion No inf	Method			ote	
	No informat available Adsorption No	ion / des	°C Io Information vailable sorption efficient	Concentra No informa available	tion No inf	Method formation avail ration rate		- Method ormation		
Transp	No informat available ort No available No av	ion / des	°C Io Information Vailable sorption efficient constant	Concentra No information available log Kow	tion No inf Evapo No inform available	Method formation avail ration rate	No info	Method ormation ole ormation	Note	



Trading name:

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

SODIUM THIOSULFATE, 5% SOLUTION

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Product code:		NT5-OT-X**	Date of compilation:	21 Dec 2022	Version:	4				
12.5.	Results of PBT and vPvB assessment									
	according		contain components considere or Commission Delegated regules els of 0.1% or higher.			•				
12.6.	Endocrine disrupting properties									
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.									
12.7.	Other adv	verse effects								
12.7.		verse effects nation available								
12.7.										

13.1.	Waste treatment methods

13.1.1. Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.

13.1.2. Waste codes/waste designations according to Law:

No information available

13.1.3. Waste treatment – relevant information:

No information available

13.1.4. Sewage disposal – relevant information:

Waste must not be disposed of into the sewage system.

13.1.5. Other disposal recommendations:

Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.

13.1.6. Relevant Community provisions:



SAFETY DATA SHEET

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

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SECTION 14. Transport information	
Transporting/shipment by road ((ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (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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Special precautions for us	er:	-
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 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)				
	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessme	ent			
	None				

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



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16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative	
16.3.	Key literature references and source of data:	-	
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)	
Classification		Classification procedure	
-	-		
16.5.	Relevant H statements (number	r and full text)	
	H:		
16.6.	Training advice:		
16.7.	Further information: t	** "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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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	ION 1. Identification of	the substar	nce/mixture	and of the company/undertaking	
1.1.	Product identifier	Product identifier			
	Trading name:	SULFURIO	C ACID, 0.5% S	SOLUTION	
	Chemical name:	-	-		
	Catalogue number:	SK05-OT	SK05-OT-X**		
1.2.	Relevant identified us	ses of the su	bstance 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	person:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection and Rescue D)irectorate [.]	112	
	National Protection a	na Kescue L	in ectorate.	· · -	
	Medical information:	na Rescue L	an ectorate.	+385 1 2348 342	

SECTIO	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	Hazard class and category code: Hazard statements*:		
	Not identified as hazardous subst	ance.	-	
2.1.2.	Additional information			
	-			
*For fu	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16	
2.2.	Label elements			
	Product identification:	SULFURIC AC	ID, 0.5% SOLUTION	
	Identification number: -			
	Authorization no.: -			
	Hazard pictograms: -			



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

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

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

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



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

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



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

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



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8.1. Control p		ols/person	ai protec	CIOII				
Substance				•	nal exposure limit ort term values	Biological limit values		
				ppm	mg/m³			
-		-		-	-	No information available		
Substance - name:								
EC No: - CAS No: -		_						
DNEL								
				Industrial				
Route of	,	Acute		Acute	Chronic	Chronic		
exposure: eff		ect local	effe	ct systemic	effect local	effect systemic		
Oral	-		-		-	-		
Inhalation				-	-			
Dermal	-		-			-		
Critical physical pa	rameters:	solubility, fl	ammabilit	y, corrosivity:	-			
				Consumer				
Route of		Acute		Acute	Chronic	Chronic		
exposure:	effe	ect local	effe	ct systemic	effect local	effect systemic		
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal					-	-		
PNEC								
Environmental pro	tection tar	get		PNEC	PNEC			
Fresh water				No inf	No information available			
Freshwater sedime	nts				No information available			
Marine water				No inf	ormation available			
Marine sediments				No inf	ormation available			
ood chain				No inf	ormation available			
Microorganisms in	sewage tr	eatment		No inf	ormation available			
Soil (agricultural)				No inf	ormation available			
Air				No inf	No information available			



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8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to 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 prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	ment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection				
	Hand protection:	1	ctive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation available		
8.2.3.	Environmental exposure of	controls			
	Substance/mixture related measures to prevent expo		See Section 6		
	Structural measures to pr exposure:	event	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pre exposure:	event	See Section 6		

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



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Physical state:	liquid	No information available
Colour:	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
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
 Particle characteristics:	No information available	No information available
Other information		

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

SECTIO	SECTION 11. Toxicological information				
11.1.	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	inale exposure	(STOT SF):		
opcome tan	Specific		Target organ		Note
Oral exposure:	No information		No information available	-	
Dermal exposure:	No information	available	No information available	-	
Inhalation exposure:	No information	available	No information - available		
Respiratory	irritation:	No inf	ormation available		
Irritation ar	d corrosion				
	Exposure time	Species	Evaluation	Meth od	Note
Skin irritation:	-	-	-		
Eye irritation:	-	-	-		
Sensitizatio	n				
Dermal exposure:	No information avai	lable			
		labla			
Inhalation exposure:	No information avai	тарге			
exposure:			d toxicological characterist	ics	
exposure: Symptoms		al, chemical an	d toxicological characterist	ics	
Symptoms Oral exposure:	related to the physic	al, chemical an vailable	d toxicological characterist	ics	
exposure:	related to the physic No information a No information a	al, chemical an vailable vailable	d toxicological characterist	ics	



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

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



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Chronic	inhalation	No informat	ion available	No information available	-
	CMR effects (c	arcinogenicity	mutagenicity	, reproductive toxicity)	
	Carcinogenicit			available data, the classification criteria	are not met.
	Mutagenicity (in-vitro:	Based on	available data, the classification criteria	are not met.
	Genotoxicity:		Based on	available data, the classification criteria	are not met.
	Mutagenicity i			available data, the classification criteria	
	Germ cell mut			available data, the classification criteria	
	Reproductive :	toxicity:	Based on	available data, the classification criteria	are not met.
44.0	Summary of e			ties: -	
11.2.1.	Information or				
11,6,1,	The substar contain com have endocrinaccording to Commission E 2017/2100 or (EU) 2018/60 higher.	nce/mixture ponents con ne disrupting REACH Artic Delegated regu	does not sidered to properties le 57(f) or ulation (EU) Regulation		
11.2.2.	Other informa	tions:			
	-				

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	-

ъ.		1
RIOO	laara <i>t</i>	1ation
DIOU	i c qi at	dation

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

12.3. Bioaccumulative potential

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

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

Bioconcentration factor (BCF)



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	Value Species		Me	ethod	Evaluation		Note		
No information available		No information available		on No inform available			No information available		ailable
	Chronic	ecotoxic	ity						
	Value		Dose	Exposure time	Species	Method	Eva	luation	Note
Chroni	c toxicity o	n fish	LC ₅₀	No information available	No information available	No information available	No info	ormation lle	-
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No information available	No information available	No information available	No info	ormation lle	-	
12.4.	Mability	in soil							
	Mobility in soil Known or predicted distribution in environmental compartments:								
12.4.	-		tad distributi	on in environm	ental compart	ments:			
12.4.	Known o	r predic		on in environm	ental compart	ments:			
12.4.	Known o	or predic		on in environm	ental compart	ments:			
12.4.	Known o	or prediction attension:		on in environm		ments:		N	ote
12.4.	Known o No infor	mation attension: Nition in	evailable °C	I	tion		able	- N	ote
12.4.	Known of No informat available	mation attension: e N ion in a	°C lo iformation vailable	Concentra No informat	tion	Method	able		ote
Transp	Known o No inform Surface t Value No informat available Adsorpti	mation attension: e Note in an	°C onformation vailable	Concentra No informat	tion cion No inf	Method			ote
	Known of No informat available Adsorptiont No	mation attension: e Nion in av on / des A/D coe Henry's o	°C lo offormation vailable orption efficient	Concentra No informat available	tion No inf	Method formation availa		- Method ormation	
Transp	Known of No informat available Adsorptiont Informat available No atter No available No available No Informat Informat Information No Informatio	mation attension: e Nion in e A/D coe Henry's of ilable	°C o oformation vailable orption efficient constant	Concentra No informat available log Kow No informatic	tion No inf Evapo No inform available	Method Formation availation rate nation	No info	- Method ormation ole ormation	Note



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12.5.	Results of PBT and vPvB assessment
12.5.	
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission
	Regulation (EU) 2018/605 at levels of 0.1% or higher.
i	
12.6.	Endocrine disrupting properties
***************************************	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
10.7	Other advance offerin
12.7.	Other adverse effects
	No information available
	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:



SAFETY DATA SHEET

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

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



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Special precautions for us	er:	-
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 (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain			
	dangerous substances, mixtures and articles (Annex XVII); Information according 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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16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classifi	cation	Classification procedure		
_		-		
16.5.	Relevant H statements (numb	per and full text)		
	H: 314	Causes severe skin burns and eye damage.		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-