

# RETICULIN KIT

The kit contains:

4% formaldehyde, alcoholic solution Ammonium iron sulfate, solution Oxalic acid, 1% solution Potassium permanganate, 0.5% solution Silver ammonia solution Sodium thiosulfate, 5% solution Sulfuric acid, 3% solution



Page 1 of 18

Trade name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION					
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4	

SECTI	ON 1: Identification of t	he sı	ubsta	nce/mixtu	ure and of the company/undertaking	
1.1.	Product identifier					
	Trade name:	4%	FORM	MALDEHYI	DE, ALCOHOLIC SOLUTION	
	Chemical name:	-				
	Catalogue number:	F4A	A-OT-	X**		
1.2.	Relevant identified use	s of t	the su	ıbstance o	r mixture and uses advised against	
	Uses:		For ι	use with Re	eticulin and Reticulin Contrast staining kits.	
	Uses advised against:		Only	the identi	ified uses are advised.	
	Reasons 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 th	e safe	ety data sh	leet	
	Supplier:			BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:			+385 1 2409997		
	Telefax:			+385 1 2404039		
	e-mail of competent p	ersor	n:	<u>msds@bi</u>	iognost.hr	
	National contact:			-		
1.4.	Emergency telephone	numł	oers			
	National Protection an Directorate:	d Res	scue		112	
	Medical information:				+385 1 2348 342	
	Other information:				-	

SECTIO	ON 2. Hazards identificatio	n			
2.1.	Classification of the substa	ance or mixture			
2.1.1.	Classification according to	Regulation (EC) No	0 1272/2008 (CLP)		
	Hazard class and d	category code:	Hazard statement*:		
	Flam. Liq. 2		H225		
	Skin Sens. 1		H317		
	Muta. 2		H341		
	Carc. 1B		H350		
2.1.2.	Additional information				
	-				
*For fu	Il text of Hazard- and EU Ha	zard-statements: se	e Section 16.		
2.2.	Label elements				
	Product identification:	4% FORMALDEH	YDE, ALCOHOLIC SOLUTION		



Page 2 of 18

Trade name:			49	% FORMALD	EHYDE, ALC	OHOLIC SOLUTIO	ON		
Product code: F4A-OT-X**				Date of	compilation:	21 December 20	)22	Version:	4
lo	dentifica	tion number:	_						
A	uthorisa	tion number:	-						
H	lazard pi	ctograms:	GHS02 GHS08 GHS07						
S	ignal wo	ord:	Dange	r					
		atement:	H225 H317 H341	Highly flamm May cause ar Suspected of	able liquid and n allergic skin n causing genet ncer.	eaction.			
Ρ	recautio	nary statement:	P280 protec P302	n sources. No Wear prot tion. + P352 IF ON	smoking. ective gloves SKIN: Wash wit	t surfaces, sparks, /protective cloth h plenty of water. ed: Get medical adv	ing/e	ye/protection	
	uppleme	ental hazard on (EU):	-						
2.3. C	)ther haz	rarda							

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)		



Page 3 of 18

Trade name:		4% FORMALDEHYDE, ALCOHOLIC SOLUTION							
Product code:	F4A-OT->	F4A-OT-X**		Date of compilation:		cember 2022	Version:	4	
64-17-5/ 200-578-6/ - 603-002-00-5		50 – 70 %		ethanol		Flam. Liq. 2; H	225		
30525-89-4/ 608-494-5/ - -		3 – 4 %		paraformaldehydd	9	Acute Tox. 4; H302 Skin Irr. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 Acute Tox. 4; H332 STOT SE 3; H335 Muta. 2; H341 Carc. 1B; H350			

SECTI	ON 4. First aid measures						
4.1.	Description of first aid meas	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 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 and effects, both acute and delayed						
	Following inhalation:	Depending on concentration and exposure time, irritation of the mucous membrane of the nose/throat may occur (burning sensation, urge to sneeze, runny nose). High concentration levels may cause difficult breathing, coughing, chest tightness, headache, pneumonia and pulmonary edema.					
	Following skin contact:	Depending on concentration and exposure time, redness accompanied by sensation of stinging and pain may occur, defatting, skin cracking, rash, swelling, burns, blisters and delayed onset of inflammations.					
	Following eye contact:	Depending on concentration and exposure time, mucosa stinging, lacrimation, redness and pain may occur, as well as bleeding, delayed onset of inflammations and permanent eyesight damage.					



Page 4 of 18

Trade	e name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION							
Produ	uct code:	F4A-OT-X**		Date of compilation:	21 December 2022	Version:	4		
Following ingestion:		damage as abdo headac	Depending on concentration and exposure time, stinging and possible damage to the mucous membrane of the digestive tract is possible, as well as abdominal pain, nausea, vomiting (bloody vomit is possible), vertigo, headache, eyesight disorders and permanent blindness due to optical nerve damage, loss of consiousness.						
4.3.	Indicatio	ndication of any immediate medical attention and special treatment needed							
	-								

SECTI	CTION 5. Firefighting measures						
5.1.	Extinguishing media						
	Suitable extinguishing media:	water spray or alcohol-resistant foam, dry powder, CO <sub>2</sub>					
	Unsuitable extinguishing media:	No information available					
5.2.	Special hazards arising from the su	bstance or mixture					
	Hazardous by products of fire:	Possible liberation of toxic carbon monoxide and formaldehyde gases due to thermal decomposition (increased temperature). Explosive mixtures of formaldehyde vapors and air also present danger.					
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, in order to prevent explosion.						
5.4.	Additional information						
	Remove sources of heat and ignitic	n. Do not contaminate the environment with extinguishing media.					

SECTIO	SECTION 6. Accidental release measures							
6.1.	Personal precautions, protective eq	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. Remove all sources of sparks and ignition. Do not smoke.						
	Emergency procedures:	Mark the area using proper signs.						
6.1.2.	For emergency responders:							
	Use protective equipment; in case (see Section 8).	of inadequate ventilation use adequate airways protective equipment						
6.2.	Environmental precautions:							
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.							
6.3.	Methods and materials for contain	ment and cleaning up						



Page 5 of 18

Trade name:		4% FORMALDEHYDE, ALCOHOLIC SOLUTION					
Product code:	F4A-OT-X*	* Da	te of compilation:	21 December	2022	Version:	4
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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:	Do not use incompatible materials (see Section 10).				
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:		Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.						
	Measures to prevent aerosol and dust form	nation:	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	ce. Thoroughly	wash hands after work and before eating.						
7.2.	Conditions for safe storage, including any incompatibilities								
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.							
	Containers materials:	Manufacturer	's original packaging.						
	Requirements for storage and containers:	Keep away fro closed.	om food and drink. Keep the containers tightly						
	Advices for storage equipment:	<ul> <li>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.</li> <li>Do not place the unused material in the storage room and d not use empty containers for storing other chemicals. Do no store with incompatible materials (see Section 10).</li> </ul>							
	Other information on storage conditions:								
7.3.	Specific end use(s)								
	Recommendations:	-							



Page 6 of 18

Trade name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION							
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4			

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Industrial sector specific solutions:

SECTION 8. Exposu	re contr	ols/persona	al protec	ction					
8.1. Control par	ameters								
Substance		CAS	No	valu	ies/short	exposure limit term values	Bio	logical limit values	
Ethanol		64-17	7 5	1	pm 00/-	mg/m <sup>3</sup>			
Ethanoi		04-1	7-5	10	00/-	1900/-		-	
Substance: -									
EC No: -		CAS No.:	-						
DNEL									
				Indu	ustrial				
Route of exposure:		te effect local		cute eff systemi		Chronic e local	ffect	Chronic effect systemic	
Oral	-		-	-		-		-	
Inhalation	1900 r (ethan	-	-			-		380 mg/m <sup>3</sup> (ethanol)	
Dermal	-		-		-			343 mg/kg (ethanol)	
Critical physical para	meters: s	olubility, fla	ammabili	ity, corro	osivity:	-			
				Con	sumer				
Route of exposure:		te effect local		Acute effect systemic		Chronic e local		Chronic effect systemic	
Oral	-		-			-		87 mg/kg bw/day (ethanol)	
Inhalation	950 m (ethan	-	-			-		114 mg/m <sup>3</sup> (ethanol)	
Dermal	-		-			-		206 mg/kg (ethanol)	
PNEC									
Environmental prote	ction tar	get			PNEC				
Fresh water					0.96 mg/l (ethanol)				
Fresh water sedimer	nts				3.6 mg/kg (ethanol)				
Salt water						/l (ethanol)			
Salt water sediment	5				2.9 mg/l	kg (ethanol)			
Food chain						mg/kg (ethano	l)		
Microorganisms in s	ewage tr	eatment			-	/l (ethanol)			
Soil (agricultural)					0.63 mg	/kg (ethanol)			



Page 7 of 18

Trade name:	4% FC	ORMALDEHYDE, ALCOI	HOLIC SOLUTION	1		
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4	

Air		no information available						
8.2.	Exposure controls	bls						
8.2.1.	Appropriate engineering controls							
	Substance/mixture related measures to prevent exposure during identified uses:	Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.						
	Structural measures to prevent exposure:	No information available						
	Organisational measures to prevent exposure:	Organization of work in order to reduce other worker's influence during work process.						
	Technical measures to prevent exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.						
8.2.2.	Personal protection equipment							
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.						
8.2.2.2.	Skin protection							
	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN374. Full contact: Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Splash contact: Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min						
	Other skin protection:	Complete suit protecting against chemicals (EN 340) The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace and shoes that cover the entire foot.						
8.2.2.3.	Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type P3 (EN 143) respirator cartridges as a backup to engineering controls.						
8.2.2.4.	Thermal hazards:	No information available						
8.2.3.	Environmental exposure controls							
	Substance/mixture related measures to prevent exposure:	See Section 6						



Page 8 of 18

Trade name:	:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION								
Product cod	le:	F4A-OT-X**	Date of compilation:	21 December 2022	Version: 4					
	Structu exposu	ural measures to prevent ure:	Use modern equipment.							
	•	isational measures to It exposure:	Adapt the work process to the required working conditions of the workplace.							
	Techni exposi	cal measures to prevent are:	See Section 6							

Information on basic physical and chemical properties								
		Value	Method					
	Physical state:	liquid	No information available					
	Color:	colorless	No information available					
	Odour/odour threshold:	sharp/no information available	No information available					
	Melting point / freezing point:	No information available	No information available					
	Boiling point or initial boiling point and boiling range:	No information available	No information available					
B P F L li F A C P	Flammability:	No information available	No information available					
	Lover and upper explosion limit:	No information available	No information available					
limit: Flash point:	21 °C	No information available						
	Melting point / freezing point:Boiling point or initial boiling point and boiling range:Flammability:Lover and upper explosion limit:Flash point:Auto-ignition temperature:Decomposition temperature:pH:Kinematic viscosity:Solubility:Partition coefficient n- octanol/water (log value):Vapour pressure:	No information available	No information available					
		No information available	No information available					
		No information available	No information available					
	Kinematic viscosity:	No information available	No information available					
	Color: Odour/odour threshold: Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lover and upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n- octanol/water (log value):	No information available	No information available					
		No information available	No information available					
	pH: Kinematic viscosity: Solubility: Partition coefficient n- octanol/water (log value): Vapour pressure:	No information available	No information available					
	Density and/or relative density	No information available	No information available					
	Relative vapour density:	No information available	No information available					
	Particle characteristics:	No information available	No information available					

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



Page 9 of 18

Trade name: Product code:		4% FORMALDEHYDE, ALCOHOLIC SOLUTION								
		F4A-OT-X**	C	Date of compilation:	21 December 2022	Version: 4				
10.2. Chemical stability:				The product is chemically stable under standard ambient conditions of storing and using (room temperature).						
10.3.	Possibility	of hazardous reactions:		No information available						
10.4.	Condition	nditions to avoid: No information available								
10.5.	Incompat	patible materials: Strong oxidizing agents.								
10.6.	Hazardou	s decomposition product	s:	Carbon oxides.						

	. Toxicological inform							
Acu	te toxicity:							
Route of exposure:	Method	Species	LD <sub>50</sub> /I	/e Dose _C <sub>50</sub> or	Exposure tin	ne	Results	
Oral	No information available	rat	L	D <sub>50</sub>	No information a	vailable	7.060 mg/kg (ethanol) 800 mg/kg (paraformalde hyde)	
Dermal	No information available	rabbit	L	D <sub>50</sub>	No information available		hyde) >20.000 mg/kg (ethanol) 10.000 mg/kg (paraformalde hyde)	
Inhalation	No information available	rat	L	C <sub>50</sub>			>8.000 mg/l (ethanol) 1.07 mg/l (paraformalde hyde)	
Spe	cific target organ toxici	ty - single ex	xposure (STO <sup>-</sup>	Г-SE):				
	Speci	fic effects		T	arget organ		Note	
Oral	No information ava	lable		No infor	mation available	-		
Dermal	No information ava	lable		No infor	mation available	-		
Inhalation	No information ava	lable		No infor	mation available	-		
Asp	iration hazard:		no informati	ion availa	ble			
Irrit	ation and corrosion							
	Exposu		Species	г.	valuation Meth		Note	



Page 10 of 18

Trade name:			4% FO	RMALDEHYDE	, ALCC	HOLIC	SOLUTION		
Product code:	F4A	-OT-X**		Date of compila	tion:	21 De	cember 2022	Version:	4
Skin corrosion/irritati	on:			-	-		_	no informat available	ion
Serious eye damage/irritatio	n: -			-	-		-	no informat available	ion
Sensitiz	ation								
Skin sensitizatio		Ma	v cause an alle	ergic skin reaction	า.				
Respiratory sens	itization:		information a						
Sympto	oms relate	Depend	ing on concer	ical and toxicolog	osure ti	me, muc	ous membrane		
Oral exposure:		of perfo	pration of the	ramps, bloody vo esophagus, stom of strictures poss	nach an	•	•	•	-
Dermal exposure	e:	hardenii	ng and tanning	ntration and exp g of the skin as we ved development	ell as an	esthesia,	-		
Inhalation expos	sure:	the nos asthmoi coughin	se/throat (bur d reactions; f ig, tightness in	tration and expo ning sensation, for higher conce the chest, heada bronchospasm,	urge t entratio che, rea	o sneeze ns sever actions of	e, running no e difficulty in the circulator	se), possibly breathing, f y system, dan	ever its of ger o
Eye exposure:			ent corneal les	ensity of exposur ion: seriousness					of
Repeate	ed dose t	oxicity (su	ıbacute, subch	ronic, chronic)					
		ose	Exposure time	Species	Met	hod	Evaluation	Note	
Subacute oral	No info availab	ormation lle	No information available	No information available	-	rmation lable	No informatior available	ı -	
Subacute dermal	No info availab	ormation le	No information available	No information available		rmation lable	No informatior available	ı -	
Subacute inhalation	No info availab	ormation le	No information available	No information available		rmation lable	No information available	ı -	



Page 11 of 18

Trade name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION							
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4			

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

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

civit chects (carcinogenicity,	indiagenicity, reproductive toxicity)
Carcinogenicity:	Presumed to have carcinogenic potential for humans
Mutagenicity In-vitro:	No information available
Genotoxicity:	No information available
Mutagenicity In-vivo:	No information available
Germ cell mutagenicity:	Suspected of causing genetic defects.
Reproductive toxicity:	No information available



Page 12 of 18

Trade name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION				
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4

	Summary of evaluation of the CMR properties:	No information available
11.2.	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	The substance/mixture does not co components considered to have endo disrupting properties according to RE Article 57(f) or Commission Deleg regulation (EU) 2017/2100 or Commis Regulation (EU) 2018/605 at levels of 0.1 higher.	crine EACH gated ssion
11.2.2.	Other informations:	

SECTION 12. Ecological information							
12.1. Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	species	Method	Evaluation	Note	
Fish	LC <sub>50</sub>	96 hours	Oncorhynchus mykiss (rainbow trout)	No information available	46 – 78 mg/l (paraformaldehyde)	-	
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna (water flea)	No information available	42 mg/l (paraformaldehyde)	-	
Algae/aquatic plants:	IC <sub>50</sub>	8 days	No information available	No information available	No information available	-	
Other organisms:	-	-	-	-	-	_	
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-	
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-	
Algae/aquatic plants:	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-	



Page 13 of 18

Trade name:			4	% FO	RMALDEHYDE	, ALC	оно	LIC SOLUT	ION		
Product code:		F4A-OT-X*	*		Date of compila	tion:	21	21 December 2022		Version:	4
Other organis	ms:	-	-		-	-		-		-	
12.2. Persis	stence	e and degrada	bility								
Abiot	tic de	gradation									
		Degradation	half-lives		Method	l		Ev	aluation		Note
Marine water	N	o information	available	٩	lo information av	/ailab	le	No informa	ntion ava	ilable	-
Fresh water	No	o information	available	٩	lo information av	/ailab	le	No informa	ition ava	ilable	-
Air	N	o information	available	٩	No information available		le	No informa	tion ava	ilable	-
Soil	No	o information	available	٩	lo information av	/ailab	le	No informa	ntion ava	ilable	-
				1			1				:
Biode	egrad	ation									
% Degradation		Time (days)			Method E		Evalu	Evaluation		Note	
No information available	No information available		No information available			No information available		No information available			
12.3. Bioac	cumu	ulative potentia	al								
		ater partition o		t (log l	Pow):						
Value		ncentration	pН	°C	Method			Evaluation	)	No	te
No information available		information ilable	-	-	No informati available	on	No in	information available info		No informa availabl	
Bioco	oncen	tration Factor	(BCF)								
Value		Speci	. ,		Method		Eval	uation		Note	
No informatio available	information No information			No information N		No information available		-			
Chro	nic ec	otoxicity									



Page 14 of 18

	EC <sub>50</sub> soil redicted distrib tion available	Exposure time No information available No information available	ate of compilation: Species No information available No information available mental compartment	21 Decemb Method No information available No information available	Evalua Evalua No informa availabl No informa availabl	ition e ition	on: 2 Note -
oxicity on fis oxicity on (Daphnia) Mobility in s nown or pi lo informat urface tens	sh LC <sub>50</sub> EC <sub>50</sub> soil redicted distrib	time No information available No information available	No information available No information available	No information available No information	No informa availabl No informa	ition e ition	-
oxicity on (Daphnia) Mobility in s nown or pr Io informat urface tens	EC <sub>50</sub> soil redicted distrib tion available	information available No information available	information available No information available	information available No information	informa availabl No informa	e ition	-
(Daphnia) Iobility in s nown or pr Io informat urface tens	soil redicted distrib tion available	information available	information available	information	informa		-
nown or pi Io informat urface tens	redicted distrib ion available	ution in environi	mental compartme				
nown or pi Io informat urface tens	redicted distrib ion available	ution in environ	mental compartme				
lo informat urface tens	ion available	ution in environi	mental compartme	- •			
urface tens				nts:			
	sion:						
Value		Concentertie					
	°C	Concentratio n	Method		Note		9
information n		No information available	No information available		-		
dsorption ,	/ desorption						
		log Kow	Evaporation rate	Metho	od Note		Note
r No availab	information le	No information available	No information available	No information available		-	
ater-Air No information available		No information available	No information available	No information available		-	
Soil-Air No information available		No information available	No information No informatio available available		on _		
esults of Pl	BT and vPvB as	sessment					
			nents considered to	be either pers	istent, bio	accumu	ulative and
		•		•			
	o iformation vailable dsorption A/D Henr No availab No availab esults of P his substar pxic (PBT), o	Io       No         information       Information         vailable       Information         dsorption / desorption         A/D coefficient         Henry's constant         No         Information         A/D coefficient         Henry's constant         No         Information         available         substance/mixture cor         ins substance/mixture cor         ins c(PBT), or very persiste	Value       °C       n         No       information       No       information         vailable       available       No       information         vailable       available       No       information         dsorption / desorption       A/D coefficient       log Kow         A/D coefficient       log Kow         Henry's constant       log Kow         No       information         available       No         suble       No         information       available         No       information         available       No         information       available         suble       No         information       available         suble       No         information       available         suble </td <td>Value       °C       n       Meth         No       information       No       information       No       information       No       information       No       information       available       No       information       No       information       available       information       available&lt;</td> <td>Value       °C       n       Method         o       No       information       No       information       No information available         vailable       No       information       available       No information available       No information available         dsorption / desorption       A/D coefficient       log Kow       Evaporation rate       Method         A/D coefficient       log Kow       Evaporation rate       Method         No       information       No       information available       No information available         No       information       No       information available       No information available       No information available         No       information       No       information available       No information available       No information available       No information available         No       information available       No       information available       No information available       No information available         No       information available       No       information available       No information available         No       information available       No       information available       No information available         No       information available       No       information available       available<td>Value       °C       n       Method         o       No       information       No       information       available       No information available       -         information       available       available       No information available       -       -         dsorption / desorption       A/D coefficient       log Kow       Evaporation rate       Method       -         A/D coefficient       log Kow       Evaporation rate       Method       -       -         No       information       No       information available       No information available       No information available       No information available         No       information       No       information available       No information available       No information available       No information available         No       information       No       information available       No information available       No information available         No       information       No       information available       No information available       No information available         No       information       available       No information available       No information available       No information available         No       information       available       No information available       No</td><td>Value       °C       n       Method       Note         No       information       No       information       No       information       available       -         dsorption / desorption       A/D coefficient       log Kow       Evaporation rate       Method       -         dsorption / desorption       No       information       No information       -       -         A/D coefficient       log Kow       Evaporation rate       Method       -         No       information       No       information       available       -         No       information       available       No information       available       -         No       information       available       No information       available       -         No       information       available       No information       available       -       -         No       information       available       No information       availa</td></td>	Value       °C       n       Meth         No       information       No       information       No       information       No       information       No       information       available       No       information       No       information       available       information       available<	Value       °C       n       Method         o       No       information       No       information       No information available         vailable       No       information       available       No information available       No information available         dsorption / desorption       A/D coefficient       log Kow       Evaporation rate       Method         A/D coefficient       log Kow       Evaporation rate       Method         No       information       No       information available       No information available         No       information       No       information available       No information available       No information available         No       information       No       information available       No information available       No information available       No information available         No       information available       No       information available       No information available       No information available         No       information available       No       information available       No information available         No       information available       No       information available       No information available         No       information available       No       information available       available <td>Value       °C       n       Method         o       No       information       No       information       available       No information available       -         information       available       available       No information available       -       -         dsorption / desorption       A/D coefficient       log Kow       Evaporation rate       Method       -         A/D coefficient       log Kow       Evaporation rate       Method       -       -         No       information       No       information available       No information available       No information available       No information available         No       information       No       information available       No information available       No information available       No information available         No       information       No       information available       No information available       No information available         No       information       No       information available       No information available       No information available         No       information       available       No information available       No information available       No information available         No       information       available       No information available       No</td> <td>Value       °C       n       Method       Note         No       information       No       information       No       information       available       -         dsorption / desorption       A/D coefficient       log Kow       Evaporation rate       Method       -         dsorption / desorption       No       information       No information       -       -         A/D coefficient       log Kow       Evaporation rate       Method       -         No       information       No       information       available       -         No       information       available       No information       available       -         No       information       available       No information       available       -         No       information       available       No information       available       -       -         No       information       available       No information       availa</td>	Value       °C       n       Method         o       No       information       No       information       available       No information available       -         information       available       available       No information available       -       -         dsorption / desorption       A/D coefficient       log Kow       Evaporation rate       Method       -         A/D coefficient       log Kow       Evaporation rate       Method       -       -         No       information       No       information available       No information available       No information available       No information available         No       information       No       information available       No information available       No information available       No information available         No       information       No       information available       No information available       No information available         No       information       No       information available       No information available       No information available         No       information       available       No information available       No information available       No information available         No       information       available       No information available       No	Value       °C       n       Method       Note         No       information       No       information       No       information       available       -         dsorption / desorption       A/D coefficient       log Kow       Evaporation rate       Method       -         dsorption / desorption       No       information       No information       -       -         A/D coefficient       log Kow       Evaporation rate       Method       -         No       information       No       information       available       -         No       information       available       No information       available       -         No       information       available       No information       available       -         No       information       available       No information       available       -       -         No       information       available       No information       availa



Page 15 of 18 Trade name: **4% FORMALDEHYDE, ALCOHOLIC SOLUTION** Product code: F4A-OT-X\*\* Date of compilation: 21 December 2022 Version: 4 The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7. Other adverse effects No information available **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: 15 01 10\*: 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. 13.1.6. **Relevant Community provisions: SECTION 14. Transport information** Transporting/shipment by road (ADR) UN number 1170 UN proper shipping name: Ethanol solution 3 Transport hazard classes: Ш Packing group:



Page 16 of 18

Trade name:		4% FORMALDEHYDE, ALCO	DE, ALCOHOLIC SOLUTION			
Product code:	F4A-OT-X**	Date of compilation: 21 December 2022 Version				
Environmental haza		-				
Special precautions		-				
· · · · · · · · · · · · · · · · · · ·	ng/shipment by rail (R					
UN number		1170				
UN proper shipping	name:	Ethanol solution				
Transport hazard cla	asses:	3				
Packing group:		11				
Environmental haza	rds:	-				
Special precautions	for user:	-				
Transportir	ng/shipment by inland	waterways (ADN)				
UN number		1170				
UN proper shipping	name:	Ethanol solution				
Transport hazard classes:		3				
Packing group:		II				
Environmental haza	rds:	-				
Special precautions	for user:	-				
Transportir	ng/shipment by sea (IN	/DG)				
UN number		1170				
UN proper shipping	name:	Ethanol solution				
Transport hazard cla	asses:	3				
Packing group:		II				
Environmental haza	rds:	-				
Special precautions	for user:	-				
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:		-				
Transportir	ng/shipment by air (IC	AO-TI/IATA-DGR)				
UN number		1170				
UN Proper shipping name:		Ethanol solution				
Transport hazard classes:		3				
Packing group:		II				
Environmentally haz	ardous:	-				
Special precautions		-				
Further information:	No information					



Page 17 of 18

Trade name:	4% F0	ORMALDEHYDE, ALCO	HOLIC SOLUTION		
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4

	EU regulations	
	Authorisation and/or rest	rictions on use
	Authorisations:	-
	Restrictions:	-
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>
	Information according 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, Transport of Hazardous Substances Act
15.2.	Chemical safety assessme	
	None	

SECTION 16. Other information	on
16.1. Indication of change	-



Page 18 of 18

Trade	name:			4% FORMALDEHYDE, ALCO	DHOLIC SOLUTION					
Produc	ct code	2:	F4A-OT-X**	Date of compilation: 21 December 2022 Version: 4						
16.2. Abbreviations and acronyms:				ADR: Accord relatif au transport international des marchandises dangereuses pa route (European Agreement Concerning the International Carriage of Dangerou 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.			ure references e of data:	-						
16.4. Classification and procedure 1272/2008 (CLP)				e used to derive the classification for	mixture according to R	egulation (EC	<b>C</b> )			
Classification			Classification procedure							
16.5.	Rele	evant H	l statements (num	ber and full text)						
	225 302 H: 315 317 318 332 335 341 350			<ul> <li>Highly flammable liquid and vapor.</li> <li>Harmful if swallowed.</li> <li>Causes skin irritation.</li> <li>May cause allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Harmful if inhaled.</li> <li>May cause respiratory irritation.</li> <li>Suspected of causing genetic defects.</li> <li>May cause cancer.</li> </ul>						
16.6.	Trai	ning a	dvice:	-						
16.7.	Further notice:		tice:	** "X" in the product code marks of the product). We are not responsible for consec instructions for use or improper us material safety data sheet.	quences in case of failur	e to comply v				

# ANNEX: Exposure scenario resulting to Chemical safety assessment

-



Page 1 of 16

Trading name:	A	MMONIUM IRON SULF			
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

SECTI	ON 1: Identification of t	he subs	tance/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	AMMC	DNIUM IRON SU	LFATE, SOLUTION	
	Chemical name:	-			
	Catalogue number:	ASF-O	T-X**		
1.2.	.2. Relevant identified uses of the substance or mixture and uses advised against			xture and uses advised against	
	Uses:		For use with R	eticulin and Reticulin Contrast staining kits.	
	Uses advised against:		Only the ident	ified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone number				
	National Protection an	d Rescue	e Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	CTION 2. Hazards identification				
2.1.	Classification of the substance or	mixture			
2.1.1.	Classification according to Regula	tion (EC) No 12	72/2008 (CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	tements: see Se	ection 16		
2.2.	Label elements				
	Product identification:	AMMONIUM	RON SULFATE, SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



Page 2 of 16

Trading name:	A	IMONIUM IRON SULFATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version: 5

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

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

SECTI	ION 4. First aid measures				
4.1.	Description of first aid mea	asures			
	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 eff	fects, both acute and delayed		
	Following inhalation:	No i	information available		
	Following skin contact:	No i	information available		
	Following eye contact:	No i	information available		
	Following ingestion:	No i	No information available		
4.3.	Indication of any immedia	te medi	cal attention and special treatment needed		
	-				

SECTION 5 Firefighting measures				
5.1.	Extinguishing media			
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam		



Page 3 of 16

Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

	Unsuitable extinguishing media: water jet
5.2.	Special hazards arising from the substance or mixture
	Hazardous combustion products: No information available
5.3.	Advice for firefighters
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.
5.4.	Additional information
	Remove sources of heat and ignition.
	Do not contaminate the environment with extinguishing media.

SECTIC	N 6. Accidental release meas	ures	
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personne	el	
	Protective equipment:		Use personal protective equipment (see Section 8).
	Accident prevention methods	5:	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	see Secti	on 8).
6.2.	Environmental precautions:		
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.		
6.3.	Methods and material for cor	ntainmen	t and cleaning up
6.3.1.	Bunding, covering of drains; capping procedures:	Sand o	r 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		
	See Section 7 for information See Section 8 for information See Section 13 for informatio	about p	ersonal protective equipment.



Page 4 of 16

Trading name:	IA	MMONIUM IRON SUL	FATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

SECTIO	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any 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		exposure limit t term values	Biological limit values
			ppm	mg/m <sup>3</sup>	
-		-	-	-	No information available
	·				
Substa name:	nce -				



prevent exposure:

exposure:

Technical measures to prevent

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

Page 5 of 16

Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
Product code:	ASF-OT-X**	Date of compila	tion: 21 Dec 2022	Version: 5	
EC No: -	CAS No:	-			
DNEL					
		Industrial			
Route of	Acute	Acute	Chronic	Chronic	
exposure:	effect local	effect systemic	effect local	effect systemic	

			Inc	dustrial		
Route of		Acute	Acut	e	Chronic	Chronic
exposure:		effect local	effect sys	stemic	effect local	effect systemic
Oral	-		-		-	-
Inhalation	-		-		-	-
Dermal	-		-		-	-
Critical phys	sical paramete	ers: solubility, fla	ammability, cor	rosivity:	-	
			Co	nsumer		
Route of		Acute	Acut	e	Chronic	Chronic
exposure:		effect local	effect sys	stemic	effect local	effect systemic
Oral	-		-		-	-
Inhalation	-		-		-	-
Dermal	-		-		-	-
PNEC				-		
Environmer	ital protection	n target		PNEC		
Fresh water				No information available		
Freshwater	sediments			No information available		
Marine wate	er			No information available		
Marine sedi	ments			No information available		
Food chain				No information available		
Microorgan	isms in sewag	je treatment		No information available		
Soil (agricul	tural)			No infor	mation available	
Air				No infor	mation available	
8.2.	Exposure co	ntrols				
8.2.1.	Appropriate	engineering co	ntrols			
		nixture related prevent exposu ified uses:	iro i	•	n well ventilated rooms. ot eat, drink or smoke in	
	Structural me exposure:	easures to preve	ent No info	ormation av	vailable	
	Organisatior	nal measures to	Organiz	zation of w	ork in order to reduce o	other worker's influence

during work process.

Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.



Page 6 of 16

Trading name:	A	MMONIUM IRON SULI	FATE, SOLUTION		
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

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				
	Hand protection:		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:	Wear antistatic clothing made of natural fibers (such as cotton) wis sleeves (EN 13034), and shoes that cover the entire foot (EN 1033			
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No in	formation available		
8.2.3.	Environmental exposure	controls			
	Substance/mixture relate measures to prevent exp		See Section 6		
	Structural measures to preserve exposure:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pr exposure:	event	See Section 6		

SECTION 9. Physical and chemical properties			
9.1.	Information on basic physical and che	emical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	light brown	No information available
	Odour/odour threshold:	no odor/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available



Page 7 of 16

Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version: 5	

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

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

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



Page 8 of 16

Trading name:			АММ		I SULF	ATE S		ray	Je 8 of 16
Product code:	AS	F-OT-X**		ate of compila			ec 2022	Ver	sion: 5
	7.0					2.00		· or o	
		Spe	cific effects		Targe	et orgar	า		Note
Oral exposure:		No informa	ition available	No infor	No information available			-	
Dermal exposure	:	No informa	ition available	No infor	rmation	n availat	ole	-	
Inhalation expos	ure:	No informa	ition available	No infor	rmation	n availat	ole	-	
Respira	tory irri	tation:	Ν	o information a	availabl	e			
Irritatio	n and c	orrosion					1	1	
	E	xposure time	e Specie	es Ev	aluatio	n	Method		Note
Skin irritation:	-		-	-			-	-	
Eye irritation:	-		-	-			-	-	
Sensitiz	ation								
Dermal exposure	e: No	o information	available						
Inhalation exposure:	No	o information	available						
Sympto	ms rela	ited to the ph	nysical, chemic	al and toxicolog	gical ch	aracter	istics		
Oral exposure:	No	information	available						
Dermal exposure	e: No	information	available						
Inhalation exposure:	No	information	available						
Eye exposure:	No	information	available						
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)					
		Dose	Exposure time	Species	Metl	hod	Evaluatior	<u></u> ו	Note
Subacute oral	No availa	information able	No information available	No information available		rmatio ailable	No inform available	nation	-
Subacute dermal	No availa	information able	No information available	No information available		rmatio ailable	No inform available	nation	-
Subacute inhalation	No availa	information able	No information available	No information available		rmatio ailable	No inform available	nation	-



Genotoxicity:

Mutagenicity *in-vivo*: Germ cell mutagenicity:

Reproductive toxicity:

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

Page 9 of 16

Trading name:		AMMONIUM IRON SULFATE, SOLUTION						
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5			

Subchronic oral	No information available	No information available	No information available	No informatio n available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No informatio n available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic oral	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic dermal	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No informatio n available	No information available	-

Specific target organ toxicity – repeated exposure (STOT RE):

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

No information available No information available

No information available

No information available



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

Page 10 of 16

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Trading name:	AMMONIUM IRON SULFATE, SOLUTION							
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version: 5				

	Summary of evaluation of the CMR properties: -
11.2	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
11.2.2.	Other informations:
	-

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



Page 11 of 16

Trading name: AMMON				DNIUM IRON SULFATE, SOLUTION						
Product code	): 	ASF-OT-X**		Date	e of compilation	on:	21 Dec	2022	Versio	n: 5
Other organis	ns	-	-	-		-		-		-
12.2. Persis	tence	e and degrada	bility							
Abiot	ic deg	gradation								
	D	egradation ha	lf-lives		Method			Evaluati	on	Note
Marine water	No information available		No info	rmation availab	le	No inform	nation av	vailable	-	
Fresh water	No	information av	ailable	No info	rmation availab	le	No inform	nation av	vailable	-
Air	No	information av	ailable	No info	rmation availab	le	No inform	nation av	vailable	-
Soil	No	information av	vailable	No info	rmation availab	le	No inform	nation av	vailable	-
	,									
Biode	-		c)	Ν	lethod		Evaluatic	'n	N	
% Degradation Time (days) No information No informati					No information		Note No information			
available		vailable	mation	available	lation		ailable	511	available	
12.3. Bioac	cumu	llative potentia	al							
Partit	ion co	pefficient: n-oo	tanol/		ow):					
Value		centration	рН	°C Method		Evaluation			Note	
-	No availa	information	-	_	No information available		No inform available	nation	-	
	avalla	DIE			available		available			
Віосо	ncent	tration factor (	BCF)							
Value		Species		Me	ethod		Evaluati	ion		Note
No information available	n	No inform available	ation	No informa available	ation		o informatio ailable	on	No infor available	
Chror	nic ec	otoxicity				:			:	
Valu		Dos	se	Exposure time	Species		Method	Eva	luation	Note
Chronic toxicit	y on	fish LC <sub>50</sub>	1	No	No	Nc	)	No inf	ormation	-



Page 12 of 16

Tradia	a 225	·					<u> </u>	-		Page	12 0	
Tradin	-			AMMONIUM IRON SULFATE, SOLUTION								
Produc	ct cod	le: /	ASF-OT-X**	Date	of co	mpilati	on:	21 Dec	2022	Versic	on:	5
					inforr availa	nation Ible		ormation ilable	available			
Chronic toxicity on crustacea ( <i>Daphnia</i> ) EC <sub>50</sub>		EC <sub>50</sub>	information		No No nformation information available available			No information available		-		
12.4.	Mob	oility in s	oil									
	1	-	edicted distributi	ion in environme	ental c	compart	ment	:s:				
			ion available									
	Surfa	ace tens	ion:									
	No No No Information		Concentrati	ion		1	Method			Not	te	
			information	No informati available	on	No information available			able -			
Transpo		A/C	) coefficient ry's constant	log Kow		Evapor	ation	rate	Method		N	ote
Transpo		A/C		log Kow		Evapor	ation	rate	Method		N	ote
Soil-wa	ter	No availabl	information le	No information available		o inform ailable	natior	1	No information available	n -		
Water-a	air	No availabl	information le	No information available		o inform ailable	natior	ו	No information - available			
Soil-air		No availabl	information le	No informatior available		o inform ailable	natior	)	No information available	n -		
									_	1		
12.5.	Resu	ults of PE	BT and vPvB asses	ssment								
	acco	ording to	ce/mixture does REACH Article 5 EU) 2018/605 at l	7(f) or Commissi	ion De	elegated						
	ivegt		2010/000 dt		ingne	-1.						
12.6.	Endo	ocrine di	srupting propert	ies								
	The	substan	ce/mixture does	not contain com								
		-	REACH Article 5			-	d regu	ulation (El	U) 2017/210	00 or Coi	nmi	ission
	Regi	ulation (	EU) 2018/605 at l	levels of 0.1% or	highe	er.						



Page 13 of 16

Trading name:	AI	AMMONIUM IRON SULFATE, SOLUTION							
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version: 5					

12.7.	Other adverse effects					
	No information available					
SECTIO	N 13. Disposal consideration	S				
13.1.	Waste treatment methods					
13.1.1.	Product/Packaging disposa	l:				
	Submit for disposal to the le Protection.	egal person authorized by the Ministry of Environmental and Nature				
13.1.2.	Waste codes/waste designa	ations according to Law				
10.1.2.	No information available					
13.1.3.	Waste treatment – relevant	information:				
No information available						
13.1.4.	Sewage disposal – relevant	information:				
	Waste must not be dispose	d of into the sewage system.				
13.1.5.	Other disposal recommend	ations:				
	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 provis	ions:				
	-					
SECTIO	N 14. Transport information					
	Transporting/shipment by roa	ad (ADR)				
UN num	ıber:	Not subject to transport regulations.				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing		-				
	mentally hazardous:	-				
Special	precautions for user:	-				



Page 14 of 16

Trading name:	AMMONIUM IRON SULFATE, SOLUTION						
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version:	5		

Transporting/shipment by rail (	RID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADI	N)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea	(IMDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (I	CAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	_
Further information: -	

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



Page 15 of 16

Trading name:	AMMONIUM IRON SULFATE, SOLUTION				
Product code:	ASF-OT-X**	Date of compilation:	21 Dec 2022	Version: 5	

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

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



Page 16 of 16

Trading name:			AMMONIUM IRON SULFATE, SOLUTION				
Produ	ct code:	ASF-OT-X**	Date of compilation: 21 Dec 2022 Version: 5				
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 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 literat source of	ure references and data:					
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)						
Classifi	Classification Cl		Classification procedure				
_							
16.5.	Relevant H	H statements (num	er and full text)				
	H: -		-				
16.6.	Training a	dvice:	-				
16.7.	Further in	formation:	<ul><li>** "X" in the product code marks different volumes (different packagings of the product)</li><li>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</li></ul>				

#### ANNEX:

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Exposure scenario resulting to Chemical safety assessment



Page 1 of 17

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

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

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



Page 2 of 17

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

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

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



Page 3 of 17

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

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

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

SECTIO	ION 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 and those members and those members and					
	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 equipmen (see Section 8).					
6.2	Environmental precautions:	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3	Methods and material for containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.				



Page 4 of 17

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

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

SECTIO	DN 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generatio	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. The	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	well ventil	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 tightly clos	r from food and drink. Keep the containers sed.		
	Advices for storage equipment:		e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.		



Page 5 of 17

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

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

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



Page 6 of 17

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

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

8.2	Exposure controls						
8.2.1.	Appropriate engineering controls						
	Substance/mixture related measu prevent exposure during identifie		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prevent exposure:		In accordance with Section 7.				
	Organisational measures to preve exposure:	nt	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent ex	posure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.				
8.2.2.	Personal protection equipment	nt					
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case levels of concentration in air; protective gas mask that co entire face in case of higher levels of concentration in ai					
8.2.2.2.	Skin protection						
	Hand protection:	•	The protective gloves have to satisfy the specification of Regulation (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	ring everyday work use cotton clothing (EN 340) and suitable otwear, such as rubber boots (EN 20345) or shoes that cover the tire foot. In case of spilling hazard, use clothing made of permeable material suitable for protection from liquid chemical ton, PVC, himex) and footwear made from the same material.				
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No info	ormation available				
8.2.3.	Environmental exposure controls						
	Substance/mixture related measures to prevent exposure:	See Se	ction 6				



Page 7 of 17

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

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

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

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



Page 8 of 17

Trading name:			OXALIC ACID, 1% SOLUTION						
Product code: OKS1-OT-X**		OKS1-OT-X**	Date of compilation:	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	s decomposition products:	No information available						

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



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

Page 9 of 17

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

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



Page 10 of 17

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

SECTION 12. Ecologic	al informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note



Page 11 of 17

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

Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
~ ·	EC <sub>50</sub>	48 hours	No information available	No information	No information	-
Crustacea:			available	available	available	
Crustacea: Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	available No information available	available No information available	-

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

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



Page 12 of 17

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



Page 13 of 17

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

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



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



Page 15 of 17

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

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

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



Page 16 of 17

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

	Information according 19 guideline)	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act		
15.2	Chemical safety assessm	ent		
	None			

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



Page 17 of 17

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

ANNEX: Exposure scenario resulting to chemical safety assessment



Page 1 of 16

Trading name:	P	OTASSIUM PERMANGANA	TE, 0.5% SOLUTIC	N	
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

SECTI	ON 1: Identification of t	he substa	ance/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	POTASS	IUM PERMANC	GANATE, 0.5% SOLUTION	
	Chemical name:	-			
	Catalogue number:	KP05-0	T-X**		
1.2.	Relevant identified use	s of the s	ubstance or mi	xture and uses advised against	
	Uses:		For use with	special staining kits.	
	Uses advised against:		Only the ider	ntified uses are advised.	
	Reason why uses advis against:			is intended for use only as an <i>in vitro</i> diagnostic medical tered at the Agency for Medicinal Products and Medical there is no reason to use it for other purposes	
1.3.	Details of the supplier	of the saf	afety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997 +385 1 2404039		
	Fax no.:				
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone number				
	National Protection an	d Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

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



Page 2 of 16

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

	Signal word:	-
	Hazard statements:	H412 Harmful to aquatic life with long lasting effects.
	Precautionary statements:	<ul><li>P273 Avoid release to the environment</li><li>P501 Dispose of contents/container in accordance with local regulations.</li></ul>
	Further information:	-
2.3.	Other hazards	
	Endocrine Disrupting Proper No known endocrine disruptin Results of PBT and vPvB asse 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		

SECTI	SECTION 4. First aid measures				
4.1.	Description of first aid mea	isures			
	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 ef	fects, both acute and delayed		
	Following inhalation:	No	information available		
	Following skin contact:	No	information available		
	Following eye contact:	No	No information available		
	Following ingestion:	No	No information available		
4.3.	Indication of any immediat	e medi	cal attention and special treatment needed		
	_				



Page 3 of 16

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

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

SECTIO	ON 6. Accidental release meas	ures				
6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personne	91				
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Wear protective equipment (see Section 8).					
6.2.	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3.	Methods and material for cor	ntainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.				
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	-				
6.4.	Reference to other sections					



Page 4 of 16

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	DN 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:	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. 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:	-		

SECTION 8. Exposure controls/personal protection								
8.1.	Control parameters							
Substance		CAS No	Occupational values/short	exposure limit : term values	Biological limit values			
		ppm	mg/m <sup>3</sup>	-				



Page 5 of 16

Trading na	ime:	POTASSIUM PERMANGANATE, 0.5% SOLUTION					ON			
Product co	ode:	КР05-ОТ-Х** [			Date o	f compila	tion:	21 De	ec 2022	Version: 6
Potassium p	tassium permanganate 7722-64-7		54-7		-		5	No inform	ation available	
Substance										
EC No:	-		CAS No:	-						
DNEL										
					Inc	lustrial				
Route of		Å	Acute		Acute	е		Chro		Chronic
exposure:		effe	ect local	ef	fect sys	temic		effect	local	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			- ,			-
Critical phys	sical para	meters: s	olubility, fla	mmabi	ility, cor	rosivity:		-		
		r		[	Со	nsumer				
Route of			Acute		Acute		Chronic			Chronic
exposure:		effe	ect local	effect systemic		effect local		local	effect systemic	
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC										
Environmer		ction targ	get			PNEC			1-	
Fresh water						No inform				
Freshwater		S				No information available No information available				
Marine wat										
Marine sedi	Iments					No information available				
Food chain						No information available				
Microorgan		ewage tr	eatment			No information available No information available				
Soil (agricul	itural)									
Air						No inforr	nation	i avallad	le	
8.2.	Exposur	e contro	lc							
8.2.1.	•		ineering cor	ntrols						
0.2.1.			ire related							
	measure	es to prev	vent exposu	re		•	product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.			
		during identified uses: Structural measures to prevent exposure: No infe				rmation av	vailable	9		



Page 6 of 16

						Page 6 of 16	
Trading	name:		ΡΟΤΑ	SSIUM PERMANGAN	ATE, 0.5% SOLUT	ION	
Product	code:	KP05-OT-X**		Date of compilation:	21 Dec 2022	Version: 6	
	-	nisational measures nt exposure:	to	Organization of work in during work process.	order to reduce oth	ner worker's influence	
	Techr expos	nical measures to pr sure:	event	Secure proper workspac concentration levels in a		•	
8.2.2.	Perso	nal protection equi	pment				
8.2.2.1.	Eye aı	nd face protection:		Safety glasses that stick visor.	to face (preventing	splashing) (EN 166) or	
8.2.2.2.	Skin protection						
	Hand	protection:	Protective gloves must be according to the EU Directive 2016/425/EEC a standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other	skin protection:		antistatic clothing made o s (EN 13034), and shoes th		-	
8.2.2.3.	Respi	ratory protection:	filter f	ctive full face mask (EN 136 or organic vapors, type "A ) used when concentratior	" (boiling point >65	5°C) acording to EN	
8.2.2.4.	Thern	nal hazards:	No inf	formation available			
8.2.3.	Enviro	onmental exposure	controls				
		ance/mixture relate ures to prevent exp		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			

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



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

Page 7 of 16

Trading nam	e:	ΡΟΤΑ	DTASSIUM PERMANGANATE, 0.5% SOLUTION					
Product code:		KP05-OT-X**	Date of compilation:	21 Dec	2022	Version:	6	
<b>F1</b>	1- *11	•		.1	NI : £	+:	- 1 -	
	mabil		No information availab			nation availa		
Love	r and	upper explosion limit:	No information availab	ble	No inforn	nation availa	ble	
Flash	point	:	No information availab	ole	No inforn	nation availa	ble	
Auto	-igniti	on temperature:	No information available		No information available		ble	
Deco	mpos	ition temperature:	No information available		No information available			
pH:	pH:		No information available		No information available		ble	
Kiner	matic	viscosity:	No information available		No information available		ble	
Solut	oility:		No information available		No information available		ble	
	Partition coefficient n-octanol/water (log value):		No information available		No information available		ble	
Vapo	our pre	essure:	No information available		No information available		ble	
Dens	Density and/or relative density:		No information availab	ole	No inforn	nation availa	ble	
Relat	ive va	pour density:	No information availab	ole	No inforn	nation availa	ble	
Partio	cle ch	aracteristics:	No information availab	ole	No inforn	nation availa	ble	
9.2. Othe	r info	rmation						

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



Page 8 of 16

						Page 8 of 16		
Trading name:			JM PERMAN					
Product code:	KP05-OT-X**	Da	ate of compila	tion: 21 De	ec 2022	Version: 6		
Inhalation exposure:	No informatio available	on -		LC <sub>50</sub>	_	-		
Specific	target organ toxicit	v – sinale expo	osure (STOT SE)	:				
opeeme		cific effects		Target orga	n	Note		
Oral exposure:	-	tion available	No infor	mation availa		-		
Dermal exposure	e: No informa	tion available	No infor	mation availa	ble	-		
Inhalation expos	ure: No informa	tion available	No infor	mation availa	ble	-		
			1					
Respirat	tory irritation:	Ν	o information a	vailable				
Irritation	n and corrosion		4		;			
	Exposure tim	e Spec	ies Ev	aluation	Method	Note		
Skin irritation:	-	-	-		-	-		
Eye irritation:	-	-	-		-	-		
Sensitiz	ation							
Dermal exposure	e: No information	available						
Inhalation exposure:	No information	available						
	ms related to the pl	•	al and toxicolog	gical character	ristics			
Oral exposure:	No information							
Dermal exposure	e: No information	avallable						
Inhalation exposure:	No information	available						
Eye exposure:	No information	available						
- I	1							
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)					
	Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No information available	No information available	No information available	No informatio n available	No informa available	ation _		
Subacute dermal	No information available	No information available	No information available	No informatio n available	No informa available	ation _		



Subchronic dermal

Chronic oral

Chronic dermal

Chronic inhalation

Subchronic inhalation

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

Page 9 of 16

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

Subacute inhalation	No i availa	nformation ble	information information		No informatio n available	No infor available		-	
Subchronic oral	No i availa	nformation ble	No information available			No informatio n available	No information available		-
Subchronic dermal	No i availa	nformation ble	No No information information		No informatio n available	No information available		-	
Subchronic inhalation	No i availa	nformation ble	No information available		information informatio		No infor available		-
Chronic oral	No i availa	nformation ble	No information available	No information available		No informatio n available	No information available		-
Chronic dermal	No i availa	nformation ble	No information available	-	rmation lable	No informatio n available	No infor available		-
Chronic inhalation	No information available		No information available		rmation lable	No informatio n available	No infor available		-
Specific	target	organ toxicit	y – repeated e	xposu	re (STOT F	RE):		1	
Sp			cific effects			Target organ			Note
Subacute oral	Subacute oral No inform		tion available		No inforr	mation availab	le	-	
Subacute dermal		No informa	tion available		No inforr	mation availab	le	-	
Subacute inhalat	ion	No informa	tion available		No inforr	mation availab	le	-	
Subchronic oral		No informa	tion available	No information available -				-	

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

No information available

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No information available



Page 10 of 16

Trading	g name:	P	ΟΤΑS	SIUM PERMANGAN	ATE, 0.5% SOLUT	ION	
Produc	t code:	KP05-OT-X**		Date of compilation:	21 Dec 2022	Version:	6
	Germ cell	mutagenicity:	No ir	formation available			
	Reproduct	ive toxicity:	No ir	formation available			
	*						
	Summary of evaluation of the CMR properties: -						
11.2	Informatio	n on other hazards:					
11.2.1.	Endocrine	disrupting properties:					
	contain of have end according Commissio 2017/2100	stance/mixture does components consider ocrine disrupting pro to REACH Article 5 on Delegated regulatio or Commission Reg 3/605 at levels of 0.	red to operties 7(f) or on (EU) ulation	-			
11.2.2.	Other info	rmations:					
	-						

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



Page 11 of 16

Trading name	e:		РС	DTAS	SIUM PERMAN	GAN	ATE, 0.5%	SOLU	TION	
Product code	:	KP05-OT-X*	*		Date of compila	tion:	21 Dec	2022	Version	: 6
			1	:	I	1	:			:
Algae/aquatic plants		IC <sub>50</sub>	72 hou	urs	No information available		rmation lable		-	
Other organisr	ns	-	-		-	-		-	-	
12.2. Persis	tence	e and degradab	oility							
Abioti	ic de	gradation								
	D	egradation hal	f-lives		Method			Evaluati	on	Note
Marine water	No	information av	ailable	Nc	No information available		No inform	ation av	vailable	-
Fresh water	No	information av	ailable	Nc	information availa	able	No inform	ation av	vailable	-
Air	No	information av	ailable	Nc	information availa	able	No inform	ation av	vailable	-
Soil	No	o information available			information availa	able	No inform	ation av	vailable	-
Biode	grad	ation								
% Degradation	n	Time (days	5)		Method		Evaluatio	n	Nc	ote
No information available									No information available	
12.3. Bioaco	cumu	Ilative potentia	I							
Partiti	on co	pefficient: n-oc	tanol/wa	ater (l	og Kow):					
Value	Cor	ncentration	рН	°(	C Method		Evalua	ation	Note	
_	No availa	information ble	-	-	No information available	on	No information available		-	
				1	1				1	
Bioco	ncen	tration factor (I	BCF)							
Value		Species			Method		Evaluati	on	Ν	lote
No information available			No information available			No information available		No information available		
Chron	ic ec	otoxicity								



Page 12 of 16

Trading na	ame:			РО	TASSIUN	1 PER	MANG	ANA	<b>TE, 0.5</b> 9	% SOLUTI	ON	
Product co	ode:	KP05	-OT-X**		Date	of co	mpilati	on:	21 Dec	: 2022	Versi	on: 6
V	alue		Dose	E>	kposure time	Sp	ecies	N	lethod	Evalu	ation	Note
Chronic toxicity on fish LC <sub>50</sub>		LC <sub>50</sub>	information i		No infor availa	mation able	No information available		No information available		-	
Chronic toxicity on crustacea ( <i>Daphnia</i> ) EC <sub>50</sub>		EC <sub>50</sub>	No No No information		No infor availa	mation able		ormation ilable	No infor available		-	
12.4. Mo	obility in	soil										
1	,		ed distributi	on in	n environm	ental	compart	ment	ts:			
	o inform						•					
Su	rface tei	nsion:										
	Value		°C		Concentra	ation			Method			Note
Information		o informati ailable	ion No information available		'n	No information available		lable	-			
Ad	lsorption		orption fficient									
Transport		-	onstant		log Kow		Evapora	ation	rate	Method		Note
Soil-water	No availa		nformation	No information available			No information available		ו	No information - available		
Water-air	Vater-air No information available		nformation		informatio ilable		o inform ⁄ailable	atior	ו	No information - available		
Soil-air No information available			informatio ilable		o inform ⁄ailable	atior	ו	No information - available				
12.5. Re	sults of	PBT an	d vPvB asses	ssme	nt							
Th	e substa cording	nce/m to REA	ixture does CH Article 5 018/605 at l	not c 7(f) c	ontain com or Commiss	sion D	elegatec				•	• • •
12.6. En	docrine	disrup	ting propert	ies								



Page 13 of 16 Trading name: POTASSIUM PERMANGANATE, 0.5% SOLUTION Product code: KP05-OT-X\*\* Date of compilation: 21 Dec 2022 Version: 6 The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7. Other adverse effects No information available **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: 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:** \_ **SECTION 14. Transport information** Transporting/shipment by road (ADR) UN number: 3082 Environmentally hazardous substance, liquid, n.o.s. (potassium UN proper shipping name: permanganate) 9 Transport hazard class(es):



Page 14 of 16

Trading name:		ΡΟΤΑ	SSIUM PERMANGANA	ATE, 0.5% SOLUT	ION			
Product code:	KP05-OT-X**		Date of compilation:	21 Dec 2022	Version:	6		
Packing group:		111						
Environmentally ha	azardous:	-						
Special precaution		-						
	ing/shipment by rail	(RID)						
UN number:	3,	308	2					
UN proper shippin	g name:		ironmentally hazardous sı manganate)	ubstance, liquid, n.c	o.s. (potassium	)		
Transport hazard c	lass(es):	9						
Packing group:								
Environmentally ha	azardous:	-						
Special precaution	s for user:	-						
Inland wa	terway transport (Al	DN)						
UN number:		308	2					
UN proper shipping name:		Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)						
Transport hazard c	lass(es):	9						
Packing group:								
Environmentally ha	azardous:	-						
Special precaution	s for user:	-						
Transport	ing/shipment by sea	a (IMDG)						
UN number:		308	2					
UN proper shippin	g name:		ironmentally hazardous su manganate)	ubstance, liquid, n.c	o.s. (potassium	1		
Transport hazard c	lass(es):	9						
Packing group:								
Environmentally ha	azardous:	-						
Special precaution	s for user:	-						
Transport	ing/shipment by air	(ICAO-T	I/IATA-DGR)					
UN number:		308						
UN proper shippin	g name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)				1		
Transport hazard c	lass(es):	9						
Packing group:								
Environmentally ha	azardous:	-						
Special precaution	s for user:	-						



Page 15 of 16

Trading name:	P	OTASSIUM PERMANGANA	ATE, 0.5% SOLUT	ΓΙΟΝ
Product code:	KP05-OT-X**	Date of compilation:	21 Dec 2022	Version: 6
Г				

	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.

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture							
	EU regulations							
	Authorization and/or rest	trictions of use						
	Authorizations:	-						
	Restrictions:	-						
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation an Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC an 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 200 on the limitation of emissions of volatile organic compounds due to the use or organic solvents in certain paints and varnishes and vehicle refinishing products an amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safet of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 1 December 2008 on classification, labelling and packaging of substances an mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, an amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certai dangerous substances, mixtures and articles (Annex XVII);</li> </ul>						
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)							
	National legislation: Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit value 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 Hazardou Substances Act							
15.2.	Chemical safety assessme	ent						
	None							

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



Page 16 of 16

Tradi	Trading name:IProduct code:KP05-OT-X**			POTASSIUM PERMANGANATE, 0.5% SOLUTION	
Produ			KP05-OT-X**	Date of compilation: 21 Dec 2022 Version: 6	
16.2.	Abł	previati	ons and acronyms:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>	
16.3.		literat	ure references and data:	-	
16.4.		ssificat 2/2008	•	sed to derive the classification for mixture according to Regulation (EC)	
Classif	ficatio	า		Classification procedure	
-				-	
16.5.	Rel	evant H	l statements (numb	er and full text)	
	H:	272 302 400 410 413		May intensify fire; oxidiser. Harmful if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.	
16.6.	Tra	ining a	dvice:	-	
16.7.	Fur	ther in	formation:	<ul> <li>** "X" in the product code marks different volumes (different packagings of the product)</li> <li>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</li> </ul>	

#### ANNEX:

Exposure scenario resulting to Chemical safety assessment



Page 1 of 16

Trading name:		SILVER AMMONIA S	OLUTION		
Product code:	SA-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

1.1	Product identifier						
	Trading name:	SILVER AM	SILVER AMMONIA SOLUTION				
	Chemical name:	-	-				
	Catalogue number:	SA-OT-X**					
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against			
	Uses:		For use	with Reticulin and Reticulin Contrast staining kits.			
	Uses advised against:		Only the	e identified uses are advised.			
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.				
1.3	Details of the supplier of the safety data sheet						
	Supplier:		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	Emergency telephone number					
	National Protection ar	nd Rescue Dire	ectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:	Other information:		-			

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance	or mixture			
2.1.1	Classification according to Reg	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	l text of Hazard- and EU Hazard-	statements: see SI	ECTION 16		
2.2	Label elements				
	Product identification:	SILVER AMMON	IIA SOLUTION		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



Page 2 of 16

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

	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		
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a PBT or a vPvB.		

SECTION 3. 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)		
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	ECTION 4. First aid measures				
4.1	Description of first aid measu	ıres			
	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.			



Page 3 of 16

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

	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 medi	cal attention and special treatment needed
	-	

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 environm	ent 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. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	<ul> <li>For emergency responders:</li> <li>Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).</li> </ul>				
6.2	Environmental precautions:				



Page 4 of 16

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

	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 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 information.				

SECTION 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 generation:		Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly 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 at temperatures ranging from +2 to +8 $^{\circ}$ C.				
	Packaging materials:	Manufacturer's original packaging. Avoid metal containers. Keep away from food and drink. Keep the containers tightly closed.				
	Requirements for storage rooms and vessels:					
	Advices for storage equipment: must be		torage must be made of hard material; floors be resistant to chemicals. There must be no drain lirectly leads into sewage system. Secure proper ation.			



Page 5 of 16

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

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

SECTION 8. Expos	ure contro	ols/perso	onal pr	otectio	on				
8.1 Control pa	arameters								
Substance	9	CA	S No	(	-		exposure limit term values	Biological limit values	
					рр	m	mg/m <sup>3</sup>		
-			-		-		-	-	
	1								
Substance name:	-						1		
EC No:	-	CAS No	:	-					
DNEL									
	Γ				Indus	strial			
Route of	Αςι						Chronic	Chronic	
exposure:	effect	local	etteo	ct syste	emic	effect local		effect systemic	
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-					-	
Critical physical pa	rameters: s	olubility,	flamm	ability,	corros	sivity:	-		
	T		1		Consi	umer			
Route of	Αςι			Acute			Chronic	Chronic	
exposure:	effect	local	effe	ct syste	emic		effect local	effect systemic	
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-			-		-	
PNEC									
Environmental pro-	tection tar	get			PI	NEC			
Fresh water					no	no information available			
Freshwater sedime	nts				no	no information available			
Marine water					no	no information available			
Marine sediments					no	o inform	nation available		



Page 6 of 16

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

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

8.2	Exposure controls					
8.2.1.	Appropriate engineering controls					
	Substance/mixture related measu prevent exposure during identifie		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:		In accordance with Section 7.			
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.				
8.2.2.2.	Skin protection					
	Hand protection:	Protect	tive nitrile gloves, >0.11 mm thick (EN 374).			
	Other skin protection:		ntistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 340) and shoes that cover the entire foot.			
8.2.2.3.	Respiratory protection:		quired under normal conditions of use. Use suitable tory protective device when high concentrations are t.			
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			
	Structural measures to prevent exposure:	Use mo	odern equipment.			
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.			
	Technical measures to prevent exposure:	See Section 6				



Page 7 of 16

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

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

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



Page 8 of 16

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

SECTION 11. Toxic	ological info	ormation						
11.1 Information	n on hazard o	lasses as defined in	Regu	lation (EC	.) No 1272	/2008		
Acute toxic	ity:							
Route of exposure:	Method	Species	Do	ose LD <sub>50</sub> /L ATE <sub>mix</sub>		Exposure t	ime	Results
Oral:	-	No information available		-		No informatic available	on	-
Dermal:	-	No information available		-		No informatic available	on	-
Inhalation:	-	No information available		-		No informatio available	on	-
Specific tar	get organ to	xicity – single expos	sure (S	STOT SE):				
		pecific effects			Target or	gan		Note
Oral:		tion available		No infor	rmation av	0	-	
Dermal:	No informa	tion available		No information available		vailable	-	
Inhalation:	No informa	tion available		No information available -			-	
Aspiration	hazard:	No	infor	mation av	ailable.			
Irritation ar	nd corrosion							
	Ехро	osure time	Spec	ies	Evaluatio	n Methoo		Note
Skin corrosion/irritation:	-	-		-	-	-	-	
Serious eye damage/irritation	-	-	-		_	-	-	
damage/initation								
Sensitizatio	on							
Skin sensitization:	-							
Respiratory sensitiza	ation: -							
Symptoms	related to th	e physical, chemical	and t	toxicologi	cal charac	teristics		
Oral exposure:	No inforr	mation available.						
Dermal exposure:	No inforr	mation available.						
Inhalation exposure	: No inforr	mation available.						
Eye exposure:	No inform	nation available.						



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

Page 9 of 16

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

	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	-



Page 10 of 16

Trading name:		SILVER AMMONIA SOLUTION					
Product code:	SA-OT-X**	Date of compilation:	21 Dec 2022	Version:	6		
Chronic oral	No information a	ivailable No	nformation available	-			
Chronic dermal	No information a	vailable No	nformation available	-			
Chronic inhalation	No information a	wailable No	information available	_			

Chronic	inhalation	No information available	No information available -
	CMR effects (c	arcinogenicity; mutagenicity; re	eproductive toxicity)
	Carcinogenicity:		No information available.
	Mutagenicity i	in vitro:	No information available.
	Genotoxicity:		No information available.
	Mutagenicity i	in vivo:	No information available.
	Germ cell mutagenicity:		No information available.
	Reproductive toxicity:		No information available.
	Summary of properties:	evaluation of the CMR	No information available.
11.2.	Information or	n other hazards:	
11.2.1.	Endocrine disr	upting properties:	
	No known en that affect hur	docrine disrupting properties nan health.	
11.2.2.	Other informa	tions:	
	-		

SECTION 12. Ecologie	SECTION 12. Ecological information						
12.1 Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC <sub>50</sub>	96 hours	Leuciscus idus (Golden orfe)	-	-	0.011 mg/l (silver nitrate)	
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna (Water flea)	-	-	0.0082 mg/l (silver nitrate)	
Algae/aquatic plants	IC <sub>50</sub>	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	



Page 11 of 16

Product code:	SA-OT-X								
		SA-OT-X**		ate of compila <sup>-</sup>	tion:	21 De	c 2022	Version:	6
Fish	LC <sub>50</sub>	96 hours		lo information vailable	No inforr availa	mation Ible	No information available	-	
Crustacea:	EC <sub>50</sub>	EC <sub>50</sub> 48 hours		lo information vailable	No inforr availa	mation Ible	No information available	-	
Algae/aquatic pla	ants IC <sub>50</sub>	72 hours		lo information vailable	No inforr availa	nation Ible	No information available	-	
Other organisms	-	-	-		-		-	-	
12.2 Persister	nce and degra	dahility							
	degradation	dabiiity							
	-	n half-lives		Method		Evaluatior	۱	Note	
Marine water	No information	o information available		nformation lable	No information				
Fresh water	No information	o information available		nformation lable	No information available		۱ –		
Air	No information	o information available		nformation lable	No information available		۱ –	-	
Soil	No informatio	on available		nformation lable	No information available		۱ –		
Diadaan									
Biodegra % Degradation		ne (days)		Method		Evaluatior		Note	
No information available	No available	information		No information No information available available					
			1						
	mulative pote		1- 14						
	-water partition	on coefficient ( pH	log Ko °C	ow) Method		Evalua	tion	Note	
	Loncentration	- ·	-	-			-	note	
Bioconc	entration fact	or (BCF)							



Page 12 of 16

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

	Value Species			Me	ethod	E٧	aluatio	on		Note
No info availabl	lo information No informa vailable available		mation	ation No information available			No information - available		-	
	Chronic e	cotoxicity								
	Value	Dose		oosure ime	Species	Meth	od	Evalu	uation	Note
Chronic	c toxicity on	fish LC <sub>50</sub>	No infor avail	mation i	No nformation available	No informa availab		No inform availat		-
	c toxicity on ea ( <i>Daphnic</i>		No infor avail	mation i	No nformation available	No informa availab		No inform availat		-
12.4	Mobility ir	n soil								
	Known or	predicted distrib	ition in e	environmer	ntal compart	ments:				
	No inform	nation available								
	Surface te	nsion:								
	Value	°C	C	Concentration Metho		nod			Note	
	No	No	No	informatio	on No inf	ormatior	ı			
	informatic available	on information available		ailable	availal	ole		-		
						ole		-		
	available					ble		-		
Transpo	Adsorptio	available	ava					Vethod		Note
Transpo Soil-wa	available Adsorptio ort H	available n / desorption A/D coefficient enry's constant informatio		ailable og Kow nformation	Evaporati	on rate		Method	on	Note
	Adsorptio	available n / desorption A/D coefficient enry's constant informatio able informatio	ava la No ii availa	ailable og Kow nformation able nformation	Evaporati No inform available	on rate nation	l No ir availa	Method Iformati able	on	Note -



Page 13 of 16 Trading name: SILVER AMMONIA SOLUTION Product code: SA-OT-X\*\* Date of compilation: 21 Dec 2022 Version: 6 This substance/mixture contains no components considered to be either persistent, bioaccumulative and 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 properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7. Other adverse effects No information available **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 Waste treatment – relevant information: 13.1.3. No information available Sewage disposal - relevant information: 13.1.4. 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** Transporting/shipment by road (ADR) UN number: 3082



Page 14 of 16

Trading name:	SILVER AMMONIA SOLUTION				
Product code:	SA-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:	111
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	D)
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:	111
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	ADG)
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 (IC	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:	111
Environmentally hazardous:	-
Special precautions for user:	-



Page 15 of 16

Trading name:		SILVER AMMONIA SOLUTION				
Product code:	SA-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.

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

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



Page 16 of 16

							Page 16 of 16		
Tradin	ng nar	ne:			SILVER AMMON	IA SOLUTION			
Produ	ct co	de:	SA-OT-X**		Date of compilation	: 21 Dec 2022	Version:	6	
16.2 Abbreviations and acronyms:		rou Goo IMI IAT GH : EIN CAS	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)						
		LC5 LD5 PBT	DNEL: Derived No-Effect Level (UK REACH)LC50: Lethal concentration, 50 percentLD50: Lethal dose, 50 percentPBT: Persistent, Bioaccumulative and ToxicvPvB: very Persistent and very Bioaccumulative						
16.3.		Key literature references and source of data:							
16.4.	Classification and procedure us 1272/2008 (CLP)			used to	o derive the classification	for mixture accordin	g to Regulation (EC	<u>)</u>	
Classifi	icatior	I		Classi	Classification procedure				
-				-	-				
16.5.	Rele	evant H	l statements (num	ber and	er and full text)				
		272		May intensify fire; oxidiser.					
		314		Causes severe skin burns and eye damage.					
	H:	400		Very toxic to aquatic life.					
		410		-	toxic to aquatic life with lo				
		412		Harm	ful to aquatic life with lor	g lasting effects			
16.6.	Trai	ning a	dvice:	-					
107			·	the pr	** "X" in the product code marks different volumes (different packagings of the product)				
16.7. Further information:		formation:	instru	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.					

#### ANNEX: Exposure scenario resulting to chemical safety assessment



Page 1 of 16

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

SECTI	ON 1. Identification of t	he substa	ince/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	SODIUM	THIOSULFATE, 5% SOLUTION		
	Chemical name:	-			
	Catalogue number:	NT5-OT	-X**		
1.2.	Relevant identified use	s of the su	ubstance or mix	xture and uses advised against	
	Uses:		For use with	special staining kits.	
	Uses advised against:		Only the ider	ntified uses are advised.	
	Reason why uses advis against:			is intended for use only as an <i>in vitro</i> diagnostic medical rered at the Agency for Medicinal Products and Medical there is no reason to use it for other purposes	
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection an	d Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	DN 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Reg	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and categ	ory code:	Hazard statements*:			
	Not identified as hazardous su	bstance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-	-statements: see S	ection 16			
2.2.	Label elements					
	Product identification:	SODIUM THIC	OSULFATE, 5% SOLUTION			
	Identification number:	Identification number: -				
	Authorization no.:	Authorization no.: -				
	Hazard pictograms:	-				



Page 2 of 16

Trading name:	SODIUM 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 Proper	ties:
	<b>Endocrine Disrupting Proper</b> No known endocrine disruptin	

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				

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



Page 3 of 16

Trading name:		S	SODIUM THIOSULFATE	, 5% SOLUTION			
Produc	ct 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 the substance have not been entirely tested.					
4.3.	Indication	ndication of any immediate medical attention and special treatment needed					
	-						

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

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



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

Page 4 of 16

Trading name:			9	ODIUM THIOSULFATI	E, 5% SOLUTION	- ruge r	
Produ	ict code:	NT5-OT-X**		Date of compilation:	21 Dec 2022	Version:	4
6.3.2.	Cleaning	up:	mater in tigh ventila persor Protec	e possible, the substance of ial (sand, diatomaceous ea itly closed impermeable co ated storage rooms until d ns authorized by the Minis ction. After disposal of the ials with water.	arth, vermiculite). Pla ontainers. Store the lisposal. Submit for stry of Environmenta	ace the waste substance in disposal to th al and Nature	material well e legal
6.3.3.	Other info	ormation:	-				
6.4.	Reference	e 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 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:	-				



Page 5 of 16

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

SECTION 8. Exposu	re contr	ols/persona	al protec	tion				
8.1. Control par	ameters							
Substance CAS No		No	Occupational exposure limit values/short term values		Biological limit values			
				ppm	mg/m <sup>3</sup>			
-				-	-	No information available		
Substance								
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic		
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
Critical physical para	meters: s	solubility, fla	ammabilit	ty, corrosivity:	-			
				Consumer				
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic		
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
PNEC								
Environmental prote	ction tar	get		PNEC	PNEC			
Fresh water				No info	No information available			
Freshwater sedimen	ts			No info	No information available			
Marine water				No info	No information available			
Marine sediments				No info	rmation available			
Food chain				No info	rmation available			
Microorganisms in sewage treatment				No info	rmation available			
Soil (agricultural)				No info	rmation available			
Air					No information available			



Page 6 of 16

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

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



Page 7 of 16

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

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

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



						Page 8 of 16	
Trading name:		SODIUM	M THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of	ate of compilation: 21 Dec 2			Version: 4	
						1	
Route of exposure:	Method	Species	Decies Effective d LD <sub>50</sub> /LC <sub>50</sub> or A		Exposur time	e Results	
Oral exposure:	ral exposure: No information available		LD <sub>50</sub>		-	-	
Dermal exposure:	No information available	-	LD <sub>50</sub>		-	-	
Inhalation exposure:	No information available	-	LC <sub>50</sub>		-	-	
Specific tar	get organ toxicity – s	single exposure	(STOT SE):				
	Specific	effects	Target or	gan		Note	
Oral exposure:	No information	ı available	No information available		-		
Dermal exposure:	No information	ı available	No information available		-		
Inhalation exposure	: No information	ı available	No information - available -				
Respiratory	rirritation:	No info	ormation availab	le			
Irritation ar	nd corrosion						
	Exposure time	Species	Evaluatio	on	Meth od	Note	
Skin irritation:	-	-	-				
Eye irritation:	-	-	-				
Sensitizatio	n						
Dermal exposure:	No information ava	ilable					
Inhalation exposure:	No information ava						
Symptoms	related to the physic	al, chemical and	d toxicological cl	naracterist	ics		
Oral exposure:	No information a	available					
Dermal exposure:	No information a	available					
Inhalation exposure	: No information a	available					
Eve exposure:	No information available						

Repeated dose toxicity (subacute, subchronic, chronic)



Page 9 of 16

Trading name:	S	-OT-X** Date of compilation: 21 Dec 2022 Version: 4		
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	osure (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	-



Page 10 of 16

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

Chronic	inhalation	No informat	ion available	No information available	-				
	CMR effects (	carcinogenicity,	, mutagenicity, r	eproductive toxicity)					
	Carcinogenic	ity:	Based on av	Based on available data, the classification criteria are not met.					
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criter	ia are not met.				
	Genotoxicity:		Based on av	ailable data, the classification criter	a are not met.				
	Mutagenicity	in-vivo:	Based on av	vailable data, the classification criter	a are not met.				
	Germ cell mu	tagenicity:	Based on av	vailable data, the classification criter	ia are not met.				
	Reproductive	toxicity:	Based on av	ailable data, the classification criter	a are not met.				
11.2	Information of	on other hazard	s:						
11.2		srupting propert							
	The substa contain con have endocr according to Commission 2017/2100 o		does not sidered to properties le 57(f) or Jation (EU) Regulation						
11.2.2.	Other inform	ations:							
	5								

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



Page 11 of 16

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

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

# 12.2. Persistence and degradability

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

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

12.3.	Bioaccumulative poten	tial				
	Partition coefficient: n-	octanol/wa	ater (log	Kow):		
Valu	e Concentration	рН	°C	Method	Evaluation	Note
-	No informatior available	ו –	-	No information available	No information available	-
	·					
	Bioconcentration facto	r (BCF)				



Page 12 of 16

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

Va	alue		Species	M	ethod		Evaluation		Note	
No infor available		No availat	informati ble	on No inform available	nation		No information available	No inf	ormation av	ailable
	Chronic e	cotoxicit	у							
2	Value		Dose	Exposure time	Spe	ecies	Method	Eva	luation	Note
Chronic	toxicity or	ı fish	LC <sub>50</sub>	No information available	No infori availa	mation able	No information available	No info availat	ormation ble	-
	toxicity or a ( <i>Daphni</i> e		EC <sub>50</sub>	No information available	No infori availa	mation able	No information available	No info availat	ormation ble	-
	No inform Surface te	nation av		on in environm		Lompart	ments.			
	Value		°C	Concentra	tion		Method			lote
	No informatio available		ormation ailable	No informa available	tion	No inf	ormation avail	able	-	
	Adsorptic	on / deso	rption							
		/D coof	ficient	log Kow		Evapo	ration rate		Method	Note
Transpo	rt	enry's co	onstant	- 5 -						
Transpo Soil-wat	rt F	lenry's co in	onstant formation	No informatio available		o inform ⁄ailable	nation	No info availab	ormation ble	-
	rt H er No avail	lenry's co in able in		No information	av on No			availab	ole ormation	-



Page 13 of 16

Trading name:		SODIUM THIOSULFATE, 5% SOLUTION					
Product	code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		
		PBT and vPvB assessr					
			t contain components considere				
		to REACH Article 57(1 n (EU) 2018/605 at lev	) or Commission Delegated reginals of 0.1% or higher	ulation (EU) 2017/2	Too or Commission		
	rtegulation	1 (20) 2010,000 at lev					
12.6.	Endocrino	dicrupting properties					
		disrupting properties		al ta barra an da arin			
			t contain components considere ) or Commission Delegated regi				
		n (EU) 2018/605 at lev					
I	5		5				
12.7.	Other adv	erse effects					
		ation available					
	-	osal considerations					
13.1.	Waste tr	eatment methods					
	N.						
13.1.1.	Product	oduct/Packaging disposal:					
			al person authorized by the Mir	nistry of Environme	ntal and Nature		
	Protectio	on.					
	£						
13.1.2.	Waste c	odes/waste designatio	ons according to Law:				
	No infor	mation available					
13.1.3.	Waste tr	eatment – relevant in	formation:				
	No infor	mation available					
	1						
13.1.4.	Sewage	disposal – relevant in	formation:				
		•	of into the sewage system.				
	waste II	last not be disposed (	or mo the sewage system.				
121г	Otheral	coocal recommendation	onc'				
13.1.5.		sposal recommendati			· · · · · · · · · · · · · · · · · · ·		
			t's remains into the sewage syst charge. Do not dispose of the pa				
			rs authorized by the ministry in o				
	•	may occur.					
	Polovant						
13.1.6.	Relevant	t Community provisio	ns:				



Page 14 of 16

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

SECTION 14. Transport information						
Transporting/shipment by road (	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:	-					



Page 15 of 16

Trading name:		SODIUM THIOSULFATE	E, 5% SOLUTION	
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4
Special precaution	ns for user:	-		
Further information	on: -			

Further information:

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

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



Page 16 of 16

Tradin	ng name:		SODIUM THIOSULFATE, 5% SOLUTION				
Produ	ct code:	NT5-OT-X**	Date of compilation: 21 Dec 2022 Version: 4				
16.2.	Abbreviat	ions and acronyms:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>				
16.3.	Key literat source of	ture references and data:	-				
16.4.	Classificat 1272/200	•	used to derive the classification for mixture according to Regulation (EC)				
Classifi	ication		Classification procedure				
_			-				
16.5.	Relevant I	H statements (numb	er and full text)				
	H: -		-				
16.6.	Training a	dvice:	-				
16.7.	Further in	formation:	<ul> <li>** "X" in the product code marks different volumes (different packagings of the product)</li> <li>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</li> </ul>				

#### ANNEX:

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Exposure scenario resulting to Chemical safety assessment



Page 1 of 16

Trading name:		SULFURIC ACID, 3%	SOLUTION		
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTI	ON 1. Identification of	the substa	ance/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name: SULFUR		IC ACID, 3% SC	DLUTION	
	Chemical name:	-			
	Catalogue number:	SK3-OT	-X**		
1.2.	Relevant identified use	es of the s	ubstance or mi	xture and uses advised against	
	Uses:		For use with	special staining kits.	
	Uses advised against:	Uses advised against:		ntified uses are advised.	
	Reason why uses advis against:	sed	The product 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 saf	ety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection ar	d Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and cate	egory code:	Hazard statements*:		
	Not identified as hazardous s	substance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazar	d-statements: see S	ection 16		
2.2.	Label elements				
	Product identification:	SULFURIC AC	ID, 3% SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



Page 2 of 16

Trading name:		SULFURIC ACID, 3%	SOLUTION	
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	Endocrine Disrupting Prope	rties:
	No known endocrine disruptir	na properties
	No known chaochne alsi apar	

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

SECTI	ION 4. First aid measures					
4.1.	Description of first aid measure	S				
	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				
	FOILOWING INNALATION.	ccording to our findings, chemical, physical and toxicological properties of he substance have not been entirely tested.				
	FOLLOWING SKIN CONTACT	ccording to our findings, chemical, physical and toxicological properties of he substance have not been entirely tested.				



Page 3 of 16

Tradin	g name:	SULFURIC ACID, 3% SOLUTION					
Produc	Product code: SK3-OT-X**			Date of compilation:	21 Dec 2022	Version: 4	
		g eye contact: g ingestion: According to our findings, chemical, physical and toxicological pr the substance have not been entirely tested. According to our findings, chemical, physical and toxicological pr the substance have not been entirely tested.				<b>-</b>	
4.3.	Indication	of any immediate medical attention and special treatment needed					
	-						

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

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



Page 4 of 16

Tradin	g name:		SULFURIC ACID, 3%	SOLUTION	
Product code: SK3-OT-X**		SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4
6.3.2.	Cleaning	ıb:	Where possible, the substance ca material (sand, diatomaceous ear in tightly closed impermeable con ventilated storage rooms until dis persons authorized by the Minist	rth, vermiculite). Plantainers. Store the sposal. Submit for ry of Environmenta	ace the waste material substance in well disposal to the legal al and Nature

		Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.				
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. 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:	-				



Page 5 of 16

Trading name:	SULFURIC ACID, 3% SOLUTION					
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

8.1. Control para	ameters						
Substance				•	l exposure limit rt term values	Biological limit values	
				ppm	mg/m <sup>3</sup>		
-		-		-	-	No information available	
Substance _							
EC No: -		CAS No:	-				
DNEL		I	1				
				Industrial			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
Critical physical para	meters: s	olubility, fla	ımmabilit	ty, corrosivity:	-		
				Consumer			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
PNEC							
Environmental prote	ction tar	get		PNEC			
Fresh water				No info	rmation available		
Freshwater sediment	S			No info	rmation available		
Marine water				No info	No information available		
Marine sediments				No info	rmation available		
Food chain				No info	rmation available		
Microorganisms in sewage treatment				No info	rmation available		
Soil (agricultural)				No info	No information available		
Air			No info	No information available			



Page 6 of 16

Trading name:	SULFURIC ACID, 3% SOLUTION					
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to pr exposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pro exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	oment				
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection					
	Hand protection:		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 (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN ) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	formation available			
8.2.3.	Environmental exposure	controls				
	Substance/mixture related measures to prevent exposure:		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			

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



Page 7 of 16

Trading name:	SULFURIC ACID, 3% SOLUTION								
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4					

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

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



						Page 8 of 16
Trading name:		SULF	URIC ACID, 3%	6 SOLUTI	ON	
Product code:	SK3-OT-X**	Date of	f compilation: 21 Dec		2022	Version: 4
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>		Exposure time	Results
Oral exposure:	No information available	-	LD <sub>50</sub>		-	-
Dermal exposure:	No information available	-	LD <sub>50</sub>		-	-
Inhalation exposure:	No information		LC <sub>50</sub>		-	-
Specific ta	rget organ toxicity – si	ingle exposure	(STOT SE):			
	Specific	effects	Target or	gan		Note
Oral exposure: No information availabl			No information available	n	-	
Dermal exposure:	No information	available	No information - available		-	
Inhalation exposure	: No information	available	No information			
Respirator	y irritation:	No info	ormation availab	le		
Irritation a	nd corrosion					
	Exposure time	Species	Evaluati	on	Meth od	Note
Skin irritation:	-	-	-			
Eye irritation:	-	-	_			
					· · ·	
Sensitizatio	on					
Dermal exposure:	No information avail	lable				
Inhalation exposure:	No information avail	lable				
Symptoms	related to the physica	al, chemical and	d toxicological cl	naracteristi	ics	
Oral exposure:	No information av					
Dermal exposure:	No information av	vailable				
Inhalation exposure	No information av	vailable				
Eye exposure:	No information av	vailable				

Repeated dose toxicity (subacute, subchronic, chronic)



Chronic oral

Chronic dermal

No information available

No information available

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

Page 9 of 16

Trading name:	SULFURIC ACID, 3% SOLUTION							
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4				

		Dose	Exposure time	Spe	cies	Method	Evaluation	No	te
Subacute oral	No in availa	formation ble	No information available		rmation able	No information available	No informatior available	ן –	
Subacute dermal	No in availa	formation ble	No information available		rmation lable	No information available	No informatior available	ן -	
Subacute inhalation	No in availa	formation ble	No information available		rmation lable	No information available	No informatior available	ן -	
Subchronic oral	No in availa	formation ble	No information available	No No information informatio available available		information	No informatior available	ן -	
Subchronic dermal	No in availa	formation ble	No information available	ormation information information informa		No informatior available	ן -		
Subchronic inhalation	No in availa	formation information ir			rmation able	No information available	No informatior available	ן -	
Chronic oral	ral No information available No available		information	-	rmation lable	No information available	No informatior available	ן -	
Chronic dermal		available		info	rmation able	No information available	No informatior available	ן -	
chronic No information inf		No information available		rmation able	No information available	No information available	ן -		
Cracific	taraat	orgon tovicit	by repeated a			Σ.			
Specific	larget	•	ty – repeated e ecific effects	xposu		Target organ		N	Note
Subacute oral		•	ation available		No inform	nation available		-	
Subacute derma		No informa	ation available			mation available		-	
Subacute inhalat	ion	No informa	ation available		No inform	mation available	9	-	
Subchronic oral		No informa	ation available		No inform	No information available		-	
Subchronic derm	nal	No informa	ation available		No inform	mation available	2	-	
Subchronic inhal	ation	No informa	ation available		No inform	mation available	2	-	

No information available

No information available

-

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Page 10 of 16

Trading name:		SULFURIC ACID, 3%	SOLUTION	
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

Chronic inhalation No information		ion available	No information available	-	
	CMR effects (	carcinogenicity	, mutagenicity,	reproductive toxicity)	
	Carcinogenic	ity:	Based on a	vailable data, the classification criteria	a are not met.
	Mutagenicity	in-vitro:	Based on a	vailable data, the classification criteria	a are not met.
	Genotoxicity:		Based on a	vailable data, the classification criteria	a are not met.
	Mutagenicity	in-vivo:	Based on av	vailable data, the classification criteria	a are not met.
	Germ cell mu	tagenicity:	Based on a	vailable data, the classification criteria	a are not met.
	Reproductive	toxicity:	Based on a	vailable data, the classification criteria	a are not met.
	Summary of e	evaluation of th	e CMR properti	es: -	
11.2	Information of	on other hazard	s:		
11.2.1.	Endocrine dis	rupting proper	ties:		
	contain con have endocr according to Commission 2017/2100 o	nce/mixture nponents cons ine disrupting REACH Artic Delegated regu r Commission D5 at levels c	properties le 57(f) or ılation (EU) Regulation		
11.2.2.	Other inform	ations:	1		
	_				

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



Page 11 of 16

Trading name:	SULFURIC ACID, 3% SOLUTION							
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version:	4			

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

# 12.2. Persistence and degradability

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

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

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



Page 12 of 16

Trading name:		SULFURIC ACID, 3%	<b>6 SOLUTION</b>	
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Value Species		Species	Method		Evaluation	Note		
No information No inform available available		informati ole	ion No information available		No information No informatio available		rmation av	n available	
	Chronic e	cotoxicit	.y						
	Value		Dose	Exposure time	Species	Method	Evalu	uation	Note
Chronic	c toxicity on	ı fish	LC <sub>50</sub>	No information available	No information available	No information available	No info availabl	rmation e	-
	c toxicity on ea ( <i>Daphnic</i>		EC <sub>50</sub>	No information available	No information available	No information available	No info availabl		-
12.4.	Mobility i								
		predicte	ed distributi	on in environm	iental compar	tments:			
	No inform		vailable						
	Surface te			-					
	Surface te Value	ension:	°C	Concentra	tion	Method		N	lote
	Surface te	ension: Nc on inf	°C	Concentra No informat available	tion	Method formation avail	able	-	lote
	Surface te Value No informatio	ension: Nc on inf	°C ormation	No informa	tion		able		lote
	Surface te Value No informatic available Adsorptio	ension: Nc on inf ava on / desc	°C ormation ailable orption	No informa	tion		able		lote
Transpo	Surface te Value No informatio available Adsorptio	ension: Nc on inf ava	°C ormation ailable orption	No informa	tion No in				lote
Transpo Soil-wa	Surface te Value No informatic available Adsorptio	ension: Nc on inf ava on / deso A/D coef lenry's co	°C ormation ailable orption	No information available	tion No in	formation avail		- 1ethod	
	Surface te Value No informatic available Adsorptio ort H hter No avail	ension: Nc on inf ava on / deso A/D coef lenry's co in able in	°C ormation ailable orption ficient onstant	No information in the informatio	tion No in Evapo on No inforr available	formation avail pration rate	M No info available	- lethod rmation e rmation	



Page 13 of 16

Trading name:		SULFURIC ACID, 3% SOLUTION					
Product	t code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		
12.5.	Pocults of	PBT and vPvB assessn	aant				
12.3.	The substa according	ance/mixture does not	t contain components considere ) or Commission Delegated reg				
12.6.	Endocrine	disrupting properties					
The substance/mixture does not contain components considered to have endocrine disrupting prop 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	erse effects					
	No inform	ation available					
	_	osal considerations					
13.1.	Waste tr	eatment methods					
13.1.1.	Product/	/Packaging disposal:					
	Submit f Protectio		al person authorized by the Mir	nistry of Environme	ntal and Nature		
13.1.2.	Waste co	odes/waste designatio	ons according to Law:				
		mation available	5				
13.1.3.		eatment – relevant int	formation:				
	No infor	mation available					
13.1.4.	Sewage	disposal – relevant inf	formation:				
	Waste m	nust not be disposed o	of into the sewage system.				
13.1.5.	Other di	sposal recommendati	ons:				
	authoriz the pack	ed by the ministry in a	t's remains into the sewage syst charge. Do not dispose of the p rs authorized by the ministry in a	ackaging into the s	ewage system. Submit		
13.1.6.	Relevant	Community provision	ns:				



Page 14 of 16

Trading name:	SULFURIC ACID, 3% SOLUTION				
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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



Page 15 of 16

Trading name:		SULFURIC ACID, 3%	<b>6 SOLUTION</b>	
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version: 4
Special precaution	ns for user:	-		
Further information	on: -			

Further information:

	DN 15. Regulatory 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:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>			
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessme	ent			
	None				

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



Page 16 of 16

Tradir	ng name:		SULFURIC ACID, 3% SOLUTION				
Produ	ict code:	SK3-OT-X**	Date of compilation: 21 Dec 2022 Version: 4				
16.2.	Abbreviati	ons and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative				
16.3.	Key literat source of	ure references and data:	-				
16.4.	Classificat 1272/2008	•	used to derive the classification for mixture according to Regulation (EC)				
Classif	ication		Classification procedure				
-			-				
16.5.	Relevant H	l statements (numb	er and full text)				
	H: 314		Causes severe skin burns and eye damage.				
16.6.	Training a	dvice:	-				
16.7.	Further in	** "X" in the product code marks different volumes (diff the product)         Further information:       We are not responsible for consequences in case of faile instructions for use or improper use of the product desormaterial safety data sheet.					

#### ANNEX:

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Exposure scenario resulting to Chemical safety assessment