

### RETICULIN CONTRAST KIT

#### The kit contains:

4% formaldehyde, alcoholic solution
Ammonium iron sulfate, solution
Gold chloride, 0.2% solution
Nuclear Fast Red (Kernechtrot) reagent
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			J	
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4

1.1.	Product identifier	Product identifier			
	Trade name:	4% FOI	RMALDEHY	DE, ALCOHOLIC SOLUTION	
	Chemical name:	-			
	Catalogue number:	F4A-01	Γ-X**		
1.2.	Relevant identified u	ses of the s	substance o	r mixture and uses advised against	
	Uses:	For	use with R	eticulin and Reticulin Contrast staining kits.	
	Uses advised against	: On	ly the ident	fied uses are advised.	
	Reasons why uses advised against:	reg	The product is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical Devices there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost	BioGnost Ltd.	
	Address:	Address: N		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997		
	Telefax:		+385 1 2404039		
	e-mail of competent	e-mail of competent person:		msds@biognost.hr	
	National contact:		-		
1.4.	Emergency telephon	e numbers			
	National Protection and 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 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	ıll text of Hazard- and EU Hazard-statements: se	e Section 16.			
2.2.	Label elements	Label elements			
	Product identification: 4% FORMALDEH)	/DE ALCOHOLIC SOLUTION			



Page 2 of 18

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

	Identification number:	-
	Authorisation number:	-
	Hazard pictograms:	GHS02  GHS08  GHS07
	Signal word:	Danger
	Hazard statement:	<ul> <li>H225 Highly flammable liquid and vapor.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H341 Suspected of causing genetic defects.</li> <li>H350 May cause cancer.</li> </ul>
	Precautionary statement:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  P280 Wear protective gloves/protective clothing/eye/protection/face protection.  P302 + P352 IF ON SKIN: Wash with plenty of water.  P308+P313 IF exposed or concerned: Get medical advice/attention.
	Supplemental hazard information (EU):	-
2.3.	Other hazards	
		ntains no components considered to be either persistent, bioaccumulative and ent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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-X**	Date of compilation:	21 December 2022	Version:	4

64-17-5/ 200-578-6/ 603-002-00-5	-	50 – 70 %	ethanol	Flam. Liq. 2; H225
30525-89-4/ 608-494-5/ -	-	3 – 4 %	paraformaldehyde	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

4.1.	Description of first aid meas	sures		
	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 name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION				
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4

	Following ingestion:	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.	Indication of any immediate medical attention and special treatment needed	
	-	

SECTI	SECTION 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 substance 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 ignition	on. Do not contaminate the environment with extinguishing media.			

SECTIO	ON 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel:				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Accident prevention methods:  Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapor and avoid contact with skin and eyes. Remove all sources of spark and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in case of (see Section 8).	nadequate 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 containme	ent and cleaning up			



Page 5 of 18

Trade name:	4% FC	J			
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022	Version:	4

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 se	ections
	-	

	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. 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 t 25 °C.			
	Containers materials:	Manufacture	er's original packaging. from food and drink. Keep the containers tightly		
	Requirements for storage and containers:	Keep away fr closed.			
	Advices for storage equipment:	Advices for storage equipment:  The storage n resistant to ch leads into sev			
	Other information on storage conditions:	not use emp	the unused material in the storage room and d ty containers for storing other chemicals. Do no compatible materials (see Section 10).		
7.3.	Specific end use(s)				
	Recommendations:	_			



Soil (agricultural)

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

Page 6 of 18

rage 6 or 18									
Trade name:			4% FO	RMALDEHYD	E, ALCC	HOLIC S	SOLUTION		
Product code:	F4A-O	Г-Х**		Date of compile	ation:	21 Dec	ember 2022	Version:	4
Industrial s	ector spe	cific solutio	ns:	-					
SECTION 8. Exposu	ire contr	ols/persona	al protec	tion					
8.1. Control par	rameters								
Substance		CAS	No	Occupational values/short			Biologic	cal limit values	
				ppm	mg/	/m <sup>3</sup>			
Ethanol		64-17	7-5	1000/-	190	0/-		-	
***									
Substance: -					1				
EC No: -		CAS No.:	-						
DNEL									
	ı		1	Industrial					
Route of exposure:		te effect local		cute effect systemic	Cł	nronic effe local	ect	Chronic effect systemic	
Oral	-		-		-		-		
Inhalation	1900 r (ethan	•	-		-		380	mg/m³ (ethan	ol)
Dermal	-		-		-		343	mg/kg (ethan	ol)
Critical physical para	ameters:	solubility, fla	mmabili	ty, corrosivity:	1	-	•		
				Consumer					
Route of exposure:		te effect local		cute effect systemic	Cł	nronic effe local	ect	Chronic effect	t
Oral	-		-		-			mg/kg bw/day nanol)	
Inhalation	950 m (ethan	_	-		-		114	mg/m³ (ethan	ol)
Dermal	-		-		-		206	mg/kg (ethan	ol)
PNEC									
Environmental prote	ection tar	get		PNEC					
Fresh water				0.96 mg	/l (ethan	iol)			
Fresh water sediments			3.6 mg/	kg (ethai	nol)				
Salt water				0.79 mg	/l (ethan	iol)			
Salt water sediment	S			2.9 mg/	kg (ethai	nol)			
Food chain				380-720	mg/kg	(ethanol)			
			580 mg/	580 mg/l (ethanol)					

0.63 mg/kg (ethanol)



Page 7 of 18

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

Air		no information available		
8.2.	Exposure controls			
8.2.1.	Appropriate engineering controls	5		
	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% FC	4% FORMALDEHYDE, ALCOHOLIC SOLUTION			
Product code:	F4A-OT-X**	Date of compilation:	21 December 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

9.1.	Information on basic physical ar	nd 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
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	21 °C	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient noctanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
).2.	Other information		

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



Page 9 of 18

Trade name:	4% FC				
Product code:	F4A-OT-X**	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.	Conditions to avoid:	No information available
10.5.	Incompatible materials:	Strong oxidizing agents.
10.6.	Hazardous decomposition products:	Carbon oxides.

11.1. Info	rmation on toxicologic	al effects				
	te toxicity:					
Route of exposure:	Method	Species	Effective Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	.C <sub>50</sub> or Exposure time		Results
Oral	No information available	rat	LD <sub>50</sub>	No information a	No information available	
Dermal	No information available	rabbit	LD <sub>50</sub>	No information available		>20.000 mg/kg (ethanol) 10.000 mg/kg (paraformalde hyde)
Inhalation	No information available	rat	LC <sub>50</sub>	4 h		>8.000 mg/l (ethanol) 1.07 mg/l (paraformalde hyde)
			(CTOT CF)			
Spe	cific target organ toxici	ty - single exp fic effects	osure (STOT-SE):	Target organ		Note
Oral	No information ava		No info	ormation available	_	14010
Dermal	No information ava			ormation available	-	
Inhalation	No information ava	ilable	No info	ormation available	-	
Asp	iration hazard:	r	no information avai	lable		
Irrita	ation and corrosion					
	Exposu	ra tima	Species	Evaluation Meth	od	Note



Page 10 of 18

Trade name:			4% FOI	RMALDEHYDE	, ALCO	HOLIC S		age 10 of 18	
Product code:	F4A	-OT-X**		Date of compila	tion:	21 Dece	mber 2022	Version:	4
Skin corrosion/irritati	on:		-		-		-	no informa available	tion
Serious eye damage/irritation:					-		-	no informa available	tion
Sensitiz	ation								
Skin sensitization	า:	Ма	y cause an alle	rgic skin reaction	n.				
Respiratory sens	itization:	No	information av	ailable.					
Sympto	ms relate	i .	<u> </u>	cal and toxicolog					
Oral exposure:		and abd	lominal pain, cr pration of the e	tration and expo amps, bloody vo sophagus, stom of strictures poss	omiting, nach and	cyanosis,	respiratory in	sufficiency, c	danger
Dermal exposure	;; ;	hardenii	ng and tanning	tration and exp of the skin as wo ed development	ell as an	esthesia, a	_		
Inhalation expos	ure:	the nos asthmoi coughin	se/throat (burr d reactions; fo g, tightness in	ration and expo ning sensation, or higher conce the chest, heada bronchospasm,	urge to entration iche, rea	sneeze, ns severe ctions of t	running no difficulty in the circulatory	se), possibly breathing, system, dar	even fits of nger of
Eye exposure:			ent corneal lesi	nsity of exposur on: seriousness	_			-	of
Repeate	ed dose t	oxicity (su	ıbacute, subchr	onic, chronic)					
	D	ose	Exposure time	Species	Meth	od	Evaluation	Note	
Subacute oral	No info	ormation le	No information available	No information available	No infori availa	mation able	No information available	-	
Subacute No information available No information available		information	No information available	No infori availa	mation able	No information available	-		
Subacute inhalation	No info	ormation le	No information available	No information available	No infori availa	mation able	No information available	-	



Page 11 of 18

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

Product code:	roduct code: F4A-OT-X**		Date of cor	npilatio	n:	21 Dec	21 December 2022		4	
Subchronic oral	No informa available	tion	No information available	No informa		No inforn availa	nation ble	No informatio available	n -	
Subchronic dermal	No informa available	tion	No information available	No informa available		No inforn availa	nation ble	No informatio available	n -	
Subchronic inhalation	No informa available	tion	No information available	No informa available		No inforn availa	nation ble	No informatio available	n -	
Chronic oral	No informa available	intormation		No informa available		No inforn availa	nation ble	No informatio available	n -	
Chronic dermal	No informa available	tion	No information available	No informa available		No inforn availa	nation ble	No informatio available	n -	
Chronic inhalation	No informa available	tion	No information available	No informa available		No inforn availa		No informatio available	n -	
Specific	target organ	tovic	city - repeated	ovposuro (S	TOT DE	=)•				
Specific	target organ	TOAIC	Specific eff	•	JIOI-KL	-	get orga	an	Note	
Subacute oral		No	information a		No in		ion avai		-	
Subacute dermal		No	information a	vailable	No in	format	ion avai	lable	-	
Subacute inhalin	g	No	information a	vailable	No in	format	ion avai	lable	-	
Subchronic oral		No	information a	vailable	No in	format	ion avai	lable	-	
Subchronic derm		No	information a	vailable	No in	format	ion avai	lahla	_	

	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	-

CMR effects (carcinogenicity,	mutagenicity, reproductive toxicity)
Carcinogenicity:	Presumed to have carcinogenic potential for humans
 Mutagenicity <i>In-vitro</i> :	No information available
 Genotoxicity:	No information available
 Mutagenicity <i>In-vivo</i> :	No information available
Germ cell mutagenicity:	Suspected of causing genetic defects.
 Reproductive toxicity:	No information available



Page 12 of 18

Trade name:	4% FC	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 endodisrupting properties according to RI Article 57(f) or Commission Delegongulation (EU) 2017/2100 or Commi Regulation (EU) 2018/605 at levels of 0.1 higher.	ecrine EACH gated ssion
11.2.2.	Other information:	
	-	

SECTION 12. Ecologi	cal informat	ion				
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	% FOR	MALDEHYDE,	ALCOHO	LIC SOLUT	ION		
Product code:	F4A-OT-X	<b>**</b>	D	ate of compilation	on: 2 <sup>-</sup>	1 December	2022 '	Version:	4
Other organism	ms: -	-	-		-	-		-	
12.2. Persis	stence and degrada	ability							
Abiot	ic degradation								
	Degradation	half-lives		Method		Eν	aluation		Note
Marine water	No information	available	No	information ava	ilable	No informa	ation ava	ilable	-
Fresh water	No information	available	No	information ava	ilable	No informa	ation ava	ilable	-
Air	No information	available	No	information ava	ilable	No informa	ation ava	ilable	-
Soil	No information	available	No	information ava	ilable	No informa	ation ava	ilable	-
			·						
Biode	gradation								
% Degradation	Time (day	5)		Method	Eval	uation		Note	
No information available	information No information availab		No information available		No information available		No information available		
12.3. Bioac	cumulative potent	ial							
Octar	nol/water partition	coefficient	t (log Po	w):					
Value	Concentration	рН	°C	Method		Evaluation	1	No	ote
No information available	No information available	-	-	No information available	No ir	nformation a	vailable	No informa availabl	
Bioco	ncentration Factor	(BCF)							
Value	Spec	ies		Method	Eva	luation		Note	
No information available	n No ii available	nformation	n No ir availa	nformation able	No infor available		-		
Chror	nic ecotoxicity								_



Page 14 of 18

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

Produc	t code:	F4A-OT-X*	**	Date	of compilation:	21 Decemb	er 2022	Version:	4
	Value	Do	ese Expos		Species	Method	Evaluat	tion	Note
Chronic	c toxicity on	fish LC <sub>50</sub>	No informa availabl		No information available	No information available	No informat available	-	
Chronic toxicity on Crustacea (Daphnia)		) EC <sub>50</sub>	No informa availabl		No information available	No information available	No informat available		
12.4.	Mobility in	soil							
	Known or	predicted dist	ribution in env	rironme	ental compartme	nts:			
	No information available Surface tension:								
	Value	°C	Concentra n	ntio	Meth	od		Note	

Value	°C	Concentratio n	Method	Note
No information available	No informatio n available	No information available	No information available	-

Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-Water	No information available	No information available	No information available	No information available	1
Water-Air	No information available	No information available	No information available	No information available	-
Soil-Air	No information available	No information available	No information available	No information available	-

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

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



Page 15 of 18

Trade name:	4% FO	RMALDEHYDE, ALCOH	HOLIC SOLUTION		
Product code: F4A	OT-X**	Date of compilation:	21 December 2022	Version:	4

	according to REACH Articl	es not contain components considered to have endocrine disrupting properties e 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission at levels of 0.1% or higher.			
12.7.	Other adverse effects				
	No information available				
	N 13. Disposal considerati				
13.1.	Waste treatment method	35			
13.1.1.	Product/packaging dispo	osal:			
	Submit for disposal to the Protection.	ne legal person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste design	gnations according to law:			
		at contains residual hazardous substances or is contaminated with hazardous			
13.1.3.	Waste treatment – relevant information:				
	No information available				
13.1.4.	Sewage disposal – releva	ant information:			
	Waste must not be dispo	osed of into the sewage system.			
13.1.5.	Other disposal recomme	endations:			
	Do not dispose of the prauthorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge.			
13.1.6.	Relevant Community pro	ovisions:			
	-				
CE CE I	M44.7				
SECTIO	Transport informati  Transporting/shipment by				
UN nur		1170			
	per shipping name:	Ethanol solution			
······································	ort hazard classes:	3			
······································	g group:				



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

Page 16 of 18

Trade name:		4% FORMALDEHYDE, ALC	OHOLIC SOLUTION	
Product code:	F4A-OT-X**	Date of compilation:	21 December 2022 Ver	sion: 4
		***************************************		

Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number	1170
UN proper shipping name:	Ethanol solution
Transport hazard classes:	3
Packing group:	П
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inland	l waterways (ADN)
UN number	1170
UN proper shipping name:	Ethanol solution
Transport hazard classes:	3
Packing group:	П
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
UN number	1170
UN proper shipping name:	Ethanol solution
Transport hazard classes:	3
Packing group:	П
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number	1170
UN Proper shipping name:	Ethanol solution
Transport hazard classes:	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-



Page 17 of 18

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

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

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



Page 18 of 18

Trade name:	4% FORMALDEHYDE, ALCOHOLIC SOLUTION				
Product code:	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 par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  IMDG: International Maritime Code for Dangerous Goods  IATA: International Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals  EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent  PBT: Persistent, Bioaccumulative and Toxic  vPvB: very Persistent and very Bioaccumulative		
16.3.	-	literature references source of data:	-		
16.4.		ssification and procedure 72/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classifi	Classification		Classification procedure		
-			-		
16.5.	Rel	evant H statements (num	per and full text)		
		225	Highly flammable liquid and vapor.		
		302	Harmful if swallowed.		
	H:	315	Causes skin irritation.		
		317	May cause allergic skin reaction.		
		318	Causes serious eye damage.		
		332	Harmful if inhaled.		
		335	May cause respiratory irritation.		
		341	Suspected of causing genetic defects.		
	350		May cause cancer.		
16.6.	Tra	ining advice:	-		
	16.7. Further notice:		** "X" in the product code marks different volumes (different packaging of the product).		
16.7.			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	

-



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

Page 1 of 16

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

SECTI	ON 1: Identification of t	he subst	ance/mixture a	nd of the company/undertaking	
1.1.	Product identifier				
	Trading name:	AMMC	NIUM IRON SUL	FATE, SOLUTION	
	Chemical name:	-			
	Catalogue number:	ASF-O	Γ-X**		
1.2.	Relevant identified use	es of the	substance or mix	ture and uses advised against	
	Uses:		For use with Re	ticulin and Reticulin Contrast staining kits.	
	Uses advised against:		Only the identif	fied uses are advised.	
	Reason why uses advis	sed	intended for use only as an <i>in vitro</i> diagnostic medical ed at the Agency for Medicinal Products and Medical ere is no reason to use it for other purposes		
1.3.	Details of the supplier	of the sa	fety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039		
	Telephone number:				
	Fax no.:				
	e-mail of competent p	erson:	msds@biogno	<u>st.hr</u>	
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection an	d Rescue	Directorate:	112	
	Medical information: Other information:			+385 1 2348 342	
				-	

SECTIO	TION 2. Hazards identification						
2.1.	Classification of the substance or r	Classification of the substance or mixture					
2.1.1.	Classification according to Regulat	ion (EC) No 12	272/2008 (CLP)				
	Hazard class and category	code:	Hazard statements*:				
	Not identified as hazardous substa	nce.	-				
2.1.2.	Additional information						
	-						
*For fu	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16				
2.2.	Label elements						
	Product identification:	AMMONIUM	IRON SULFATE, SOLUTION				
	Identification number: -						
	Authorization no.: -						
	Hazard pictograms:	_					



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

Page 2 of 16

Trading name:	AMMONIUM IRON SULFATE, SOLUTIO				
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 Properties:	
	No known endocrine disrupting properties	
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a PBT or a vPvB.	

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

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

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



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

Page 3 of 16

Trading name:	Al	MMONIUM IRON SUL			
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.

SECTIO	ON 6. Accidental release meas	ures				
6.1.	Personal precautions, protect	ive equipment and emergency procedures				
6.1.1.	For non-emergency personne	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Wear protective equipment (see Section 8).					
6.2.	Environmental precautions:					
	Do not dispose of in sewage, Protection and Rescue Direct	drainage system and waterways. In case of large spillage contact National orate (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					
	See Section 7 for information See Section 8 for information See Section 13 for information	about personal protective equipment.				



Page 4 of 16

Trading name:	A	MMONIUM IRON SULI	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:	-			

SECTION 8. Exposure controls/personal protection				
8.1. Control parameters				
Substance	CAS No	•	exposure limit t term values	Biological limit values
		ppm	mg/m³	
-	-	-	-	No information available
		•		
Substance - name:				



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

amended by Regulation (EU) No. 1907/2006

Page 5 of 16

Trading na	ame:			A	MMONI	UM IRON	SUL	FATE, SOLUTION	١
Product co	ode:	ASF-OT-	X**		Date o	f compilati	on:	21 Dec 2022	Version: 5
	***		1						
EC No:	-		CAS No:	-					
DNEL									
				1	Inc	dustrial			T
Route of			cute		Acute			Chronic	Chronic
exposure:		effec	t local	(	effect sys	temic		effect local	effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
Critical phy	sical pai	rameters: so	olubility, fla	mmal			-   -	-	
		1 .		1		nsumer			
Route of			cute		Acute			Chronic	Chronic
exposure:		епес	t local		effect sys			effect local	effect systemic
Oral Inhalation		-		-					-
		-		-					-
Dermal PNEC		-		-					-
	atal prot	taction take	o+			PNEC			
Environmer Fresh water	•	lection larg	et			No inform	ation	availabla	
Freshwater		nts			No information available  No information available				
Marine wat  Marine sed						No inform			
Food chain									
		cowago tro	atmont			No information available  No information available			
Microorgar Soil (agricu		sewage tre	atment			No information available			
Air	iturai)					No inform			
All						NO IIIIOIIII	ation	avaliable	
8.2.	Exposi	ure controls	;						
8.2.1.		priate engii		ntrols					
	Substa	ance/mixtur	e related				. المنا	rantilatad na ana 11	laa waxaa ah waxaati sa
		res to prev	•	re		•		drink or smoke in t	lse personal protective he workspace.
	Structi exposi	ural measur ure:	es to preve	ent	No info	rmation ava	ilable	2	
		isational m			_	ation of wo		order to reduce otl	ner worker's influence
	Techni	ical measur	es to preve	nt		•	-	e ventilation in ord ir below permitted	•



Page 6 of 16

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

8.2.2.	Personal protection equi	nent			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) visor.	(EN 166) or		
8.2.2.2.	Skin protection				
	Hand protection:	Protective gloves must be according to the EU Directive 2016/425/EEC and standard 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) with I sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).			
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) according to EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No information available			
8.2.3.	Environmental exposure	ntrols			
	Substance/mixture relate measures to prevent exp	ure: See Section 6			
	Structural measures to prescribe exposure:	Use modern equipment.			
	Organisational measures prevent exposure:	Adapt the work process to the required working condi workplace.	tions of the		
	Technical measures to pr exposure:	See Section 6			

SECTION 9. Physical and chemical properties			
9.1.	Information on basic physical and che	mical 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
	Lower 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

	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.	

11.1. Informatio	n on toxicological effe	cts			
Acute toxic	city:				
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results
Oral exposure:	No information available	-	LD <sub>50</sub>	-	-
Dermal exposure:	No information available	-	LD <sub>50</sub>	-	-
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-	-



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

Page 8 of 16

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

	ASF-OT-X**	Da	Date of compilation: 21 Dec 2022		ec 2022 \	ersion: 5	
	Spe	ecific effects		Target organ	١	Note	
Oral exposure:	No inform	ation available	No infor	No information available			
Dermal exposure	: No inform	ation available	No infor	mation availal	ole -		
Inhalation expos	ure: No inform	ation available	No infor	mation availal	ole -		
Respirat	tory irritation:	N	o information a	vailable			
Irritation	n and corrosion						
mitation	Exposure tim	e Specie	es Eva	aluation	Method	Note	
Skin irritation:	-	-	-				
Eye irritation:	-	-	-				
Sensitiz	ation						
Dermal exposure							
Inhalation exposure:		No information available					
Sympto	ms related to the p	hysical chemic	al and toxicolog	nical character	istics		
Oral exposure:	No information		ar arra toxicorog	great character			
Dermal exposure							
Inhalation exposure:	No information	available					
Eye exposure:	No information	available					
,							
•	d dose toxicity (sub	pacute, subchro	onic, chronic)				
•	ed dose toxicity (sub	Exposure time	Species	Method	Evaluation	Note	
•		Exposure		Method  No informatio n available	Evaluation  No informatio available		

No

information

available

No information

available

Subacute

inhalation

No

information

available

No

informatio

n available

No information

available



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

					<u> </u>	<u> </u>			
Subchronic oral	No i	information able	No information available		rmation lable	No informatio n available	No informati available	ion	-
Subchronic dermal			No information available		rmation lable	No informatio n available	No informati available	ion	-
Subchronic inhalation			No information available		rmation lable	No informatio n available	No informati available	ion	-
Chronic oral	No information available		No information available		rmation lable	No informatio n available	No informati available	ion	-
Chronic dermal	ronic dermal No information available		No information available	_	rmation lable	No informatio n available	No informati available	ion	-
Chronic inhalation			No information available	No information available		No informatio n available	No information available		-
	<u>, i</u>		<u>i</u>	.i		:	<u>i</u>		į
Specific	target	organ toxicit	:y – repeated e	xposu	ure (STOT	RE):			
·			ecific effects			Target orga	ın		Note
Subacute oral		No informa	ation available	on available No infor		mation availab	ole	-	
Subacute derma	1	No informa	ation available No info		No infor	rmation availab	ole	-	
Subacute inhalat	ion	No informa	ation available	tion available No		rmation availab	ole	-	
Subchronic oral		No informa	ation available		No infor	mation availab	ole	-	
Subchronic derm	nal	No informa	ation available		No infor	mation availab	ole	-	
Subchronic inhal	lation	No informa	ation available		No infor	mation availab	ole	-	
Chronic oral			ation available		No infor	mation availab	ole	-	
Chronic dermal			ation available			mation availab		-	
Chronic inhalation	วท	No informa	ation available		No infor	mation availab	ole	-	
			y, mutagenicity						
Carcino		-			n available				
Mutage		n-vitro:			n available				
Genoto					n available				
Mutage					n available				
Germ ce	ell muta	agenicity:	No inform	natior	n available	<b>)</b>			

No information available



Page 10 of 16

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 information:
	-

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



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

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

Page 11 of 16

Trading nam	e:			АММ	ONIUM IRON S	ULFATE,	SOLUTIO	N	
Product code	e:	ASF-OT-X**		Dat	te of compilatio	n: 21 [	Dec 2022	Versio	n: 5
Other organis	ms	_	-	-	-		-		_
12.2. Persis	tence	e and degrada	hility						
		gradation	omey						
710101		egradation ha	lf-lives		Method	**************************************	Evaluation	<b></b>	Note
Marine water		information av		No info	No information available		No information available		-
Fresh water	No	information av	ailable	No info	ormation availabl	e No inf	ormation av	vailable	-
Air	No information available			ormation availabl		ormation av		-	
Soil	No information available			ormation availabl		ormation av		-	
	I								·
Biode	grad	ation							
% Degradatio	n	Time (day	s)	N	Method	Evalu	ation	N	lote
No information No information available available		No infor		No inform	nation	No information available			
available				available	•	available		available	
	1				****				
12.3. Bioac	cumi	ulative potentia	al						
		oefficient: n-o		vater (log k	(OM).				
Value		ncentration	рН	°C	Method	Εν	aluation		Note
	No	information	<u> </u>	_	No information				
-	availa	ıble	<b>-</b>	-	available	availal	ole	-	
	ncen	tration factor (	BCF)			_			
Value		Species			1ethod		luation		Note
		No inform available	nation	No information available		No information available			
Chror	nic ec	otoxicity							
Valu	ie	Dos	se	Exposure time	Species	Method	d Eva	luation	Note



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

Page 12 of 16

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

Chronic toxicity on fish	LC <sub>50</sub>	No information available	No information available	No information available	No information available	-
Chronic toxicity on crustacea ( <i>Daphnia</i> )	EC <sub>50</sub>	No information available	No information available	No information available	No information available	-
12.4 Mobility in soil	•					
12.4. Mobility in soil						
Known or predic	ted distribu	tion in environm	nental compart	ments:		

No information	on available			
Surface tension	on:			
Value	°C	Concentration	Method	Note
No information available	No information available	No information available	No information available	-

	available	available	available	TVO IIIIOIIIIatioii ava	ilable -	
	Adsorption / (	desorption				
Transpo	\rt :	coefficient y's constant	log Kow	Evaporation rate	Method	Note

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

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

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.6. Endocrine disrupting properties



Trading name:

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

**AMMONIUM IRON SULFATE, SOLUTION** 

amended by Regulation (EU) No. 1907/2006

Page 13 of 16

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  13.1.1. 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:	Produc	t code:	ASF-OT-X**	Date of compilation: 21 Dec 2022 Version: 5			
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:  Not subject to transport regulations.  Un proper shipping name:  -		according	g to REACH Article 57	(f) or Commission Delegated regulation (EU) 2017/2100 or Commission			
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13.1.1.   Product/Packaging disposal:    Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.    Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.    13.1.2.		No inforn	nation available				
13.1.1.   Product/Packaging disposal:    Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.    Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.    13.1.2.	SECTIO	N 12 Dier	ocal considerations				
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No information available	1212	\M/acta 4	trootmont volovonti	nformation.			
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SECTION 14. Transport information  Transporting/shipment by road (ADR)  UN number:  Not subject to transport regulations.  UN proper shipping name:  -		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					
SECTION 14. Transport information  Transporting/shipment by road (ADR)  UN number: Not subject to transport regulations.  UN proper shipping name: -	13.1.6.	Relevar	nt Community provision	ons:			
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Transporting/shipment by road (ADR)  UN number: Not subject to transport regulations.  UN proper shipping name: -							
UN number: Not subject to transport regulations.  UN proper shipping name: -	SECTIO		-				
UN proper shipping name: -	1.181	•	ting/shipment by road				
			na namo:				
TRUTADOTE TREGREGA CROSTCSI.	•						
Packing group: -	······································		ວວ(Cວ).				



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

Page 14 of 16

AMMONIUM IRON SULFATE, SOLUTION			
ASF-OT-X**	Date of compilation:	21 Dec 2022	Version: 5
azardous:	-		
	ASF-OT-X**	ASF-OT-X** Date of compilation:	ASF-OT-X** Date of compilation: 21 Dec 2022

Environmentally hazardous:	_
Special precautions for user:	-
Transporting/shipment by rail (F	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	I)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	_
Special precautions for aser.	
Transporting/shipment by sea (I	MDG)
	MDG)  Not subject to transport regulations.
Transporting/shipment by sea (I	
Transporting/shipment by sea (IUN number:	Not subject to transport regulations.
Transporting/shipment by sea (I UN number: UN proper shipping name:	Not subject to transport regulations.
Transporting/shipment by sea (I UN number: UN proper shipping name: Transport hazard class(es):	Not subject to transport regulations.
Transporting/shipment by sea (I UN number: UN proper shipping name: Transport hazard class(es): Packing group:	Not subject to transport regulations.
Transporting/shipment by sea (I UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:	Not subject to transport regulations.
Transporting/shipment by sea (I UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user:	Not subject to transport regulations.
Transporting/shipment by sea (I UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC)	Not subject to transport regulations.  CAO-TI/IATA-DGR)
Transporting/shipment by sea (I UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC UN number:	Not subject to transport regulations.  Not subject to transport regulations.
Transporting/shipment by sea (I UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC UN number: UN proper shipping name:	Not subject to transport regulations.  Not subject to transport regulations.  Not subject to transport regulations
Transporting/shipment by sea (I UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC UN number: UN proper shipping name: Transport hazard class(es):	Not subject to transport regulations.  Not subject to transport regulations.  Not subject to transport regulations
Transporting/shipment by sea (I UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC UN number: UN proper shipping name: Transport hazard class(es): Packing group:	Not subject to transport regulations.  Not subject to transport regulations.  Not subject to transport regulations
Transporting/shipment by sea (I UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:	Not subject to transport regulations.  Not subject to transport regulations

#### **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



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

Page 15 of 16

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

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

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



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

Page 16 of 16

Trading name:	Al	MMONIUM IRON SUL	FATE, SOLUTION		
Product 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 Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent		
		PBT: Persistent, Bioaccumulative and Toxic		
		vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:	- t		
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)		
Classifi	cation	Classification procedure		
_		-		
16.5.	Relevant H statements (numb	er and full text)		
	H: -	-		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product)  We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

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**Exposure scenario resulting to Chemical safety assessment** 

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Page 1 of 16

Trading name:		GOLD CHLORIDE, 0.29	6 SOLUTION		
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTI	ON 1: Identification of	the substance	e/mixture	e and of the company/undertaking	
1.1	Product identifier	Product identifier			
	Trading name:	GOLD CHLO	ORIDE, 0.2	% SOLUTION	
	Chemical name:	-	-		
	Catalogue number:	ZK02-OT-X**			
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		Compor	nent of many special staining kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	person:	msds@biognost.hr		
	National contact:	National contact:		-	
1.4	Emergency telephone number				
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture			
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)			
	Hazard class and category code:		Hazard statements*:	
	Not identified as hazardous substance.		-	
2.1.2.	Additional information			
	-			
*For fu	ıll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16	
2.2	Label elements			
	Product identification:	GOLD CHLORIE	GOLD CHLORIDE, 0.2% SOLUTION	
	Identification number:	-	-	
	Authorization number:	-	-	
	Hazard pictograms:	-		



Page 2 of 16

Trading name:		GOLD CHLORIDE, 0.2% SOLUTION				
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substated PBT or a vPvB.				
	No known endocrine disrupting properties				
	<b>Endocrine Disrupting Proper</b>	ties:			
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	Most important symptoms and effects, 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 16

Trading name:		GOLD CHLORIDE, 0.2% SOLUTION				
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

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

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

SECTIO	ON 6. Accidental release meas	ures		
6.1	Personal precautions, protective	ve 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 methods without protective equipment. Avoid breathing vapors and avoid with skin and eyes. Do not smoke. Keep away from ignition sour			
	Emergency procedures: Mark the area using proper signs.			
6.1.2.	For emergency responders:			
	Use protective equipment; in a (see Section 8).	case 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 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 16

Trading name:	GOLD CHLORIDE, 0.2% SOLUTION					
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

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

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



Marine sediments

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

amended by Regulation (EU) No. 2020/878

Page 5 of 16

Trading name:		GOLD CHLORIDE, 0.2% SOLUTION							
Product code:	ZK02-O	T-X**	С	ate of	compila	tion:	21 Dec 2022	Version:	4
					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).				er
Recomme	endations:				_				
Industrial	sector spe	cific solut	ions:		-				
SECTION 8. Expos	ure contr	ols/perso	nal protec	tion					
8.1 Control pa	arameters								
Substance CAS No				pational e ues/short		.	ological limit value	S	
				р	pm	mg/	m <sup>3</sup>		
-			-		-	-	-		
Substance name: -									
EC No:	EC No: - CAS No: -								
DNEL									
					ustrial				
Route of	Acu		Acute			Chronic effect local		Chronic	
exposure: Oral	effect	iocai	effect systemic					effect systemic	
Inhalation	-		_		-		-		
Dermal	-		-		-		-		
Critical physical pa	rameters: s	solubility,	flammabili	ty, corre	osivity:	_			
				Con	sumer	į .			
Route of exposure:		cute ct local	Acu effect sy		Chronic Chronic effect local effect system			Chronic effect systemic	
Oral	-		-		-		-	•	
Inhalation	-		-		-		-		
Dermal	-		-		-		-		
PNEC				ı					
Environmental protection target			ı	PNEC					
Fresh water				1	no information available				
Freshwater sedime	nts			1	no information available				
Marine water				ı	no information available				

no information available



Page 6 of 16

Trading name:	GOLD CHLORIDE, 0.2% SOLUTION						
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

Food cha	in		no information available		
Microorga	anisms in sewage treatment		no information available		
Soil (agric	cultural)		no information available		
Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to prevent exposure:	•	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent expo	sure:	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 low 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				
			otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min		
	Other skin protection:	footwe entire f mperm	everyday work use cotton clothing (EN 340) and suitable ar, such as rubber boots (EN 20345) or shoes that cover the oot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemical PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	with a f	ive 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 Sec	ction 6		



Page 7 of 16

Trading name:	GOLD CHLORIDE, 0.2% SOLUTION					
Product code:	ZK02-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

(	Physical state: Colour:	Value liquid	Method
		liquid	
	Colour:	прин	No information available
		light yellow	No information available
	Odour/odour threshold:	no information available/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
l	Decomposition temperature:	No information available	No information available
	рН:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
,	Vapour pressure:	No information available	No information available
l	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 16

Trading name:	GOLD CHLORIDE, 0.2% SOLUTION					
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

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

SECTION 11. To	oxicological informa	ation						
11.1 Informa	ation on hazard class	es as defined	l in Regu	lation (EC) No	1272/200	08		
Acute t	oxicity:							
Route of exposure:	Method	1ethod Species		Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>		Exposure time		Results
Oral:	No information available	-		information - nilable		-		-
Dermal:	No information available	-	_	o information		-		-
Inhalation:	No information available			information lable		-		-
Specifi	c target organ toxicit	y – single exp	oosure (S	TOT SE):				
	Speci	fic effects		Target organ				Note
Oral:	No information	available		No information available		ble	-	
Dermal:	No information	available		No information available		ble	-	
Inhalation:	No information	available		No information available -			_	
Aspirat	ion hazard:	1	No inforr	nation availab	ole.			
Irritatio	on and corrosion							
	Exposur	e time	Spec	ies Eval	uation	Method		Note
Skin corrosion/irritat	ion:	-	-	-		-	-	
Serious eye damage/irritatio	on -	-	_	-		-	-	
Sensitiz	zation							
Skin sensitizatio		ormation ava	ilable.					
Respiratory sens		ormation ava						
respiratory seris	Sidzation. No IIII		nabie.					



Page 9 of 16

Trading name:	GOLD CHLORIDE, 0.2% SOLUTION					
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

Oral exposure:	No informa	ation available.				
Dermal exposure	e: No informa	ation available.				
Inhalation expos	ure: No informa	ation available.				
Eye exposure:	No informa	ation available.				
Repeate	ed dose toxicity (su	ubacute, 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	<b>–</b>
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	<b>-</b>
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information	No information available	No information available	No information available	No information available	-



Page 10 of 16

Trading name:	GOLD CHLORIDE, 0.2% SOLUTION						
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

Subacute oral		No information available			No information avail	able	-	
Subacute derma	al	No information available			No information avail	able	_	
Subacute inhala	ation	No information available			No information avail	able	_	
Subchronic oral		No information available			No information avail	able	-	
Subchronic deri	mal	No information available			No information avail	able	-	
Subchronic inha	bchronic inhalation No information available				No information avail	able	-	
Chronic oral	Chronic oral No information available				No information avail	able	_	
Chronic dermal No information available					No information avail	able	-	
Chronic inhalati	on	No information available			No information avail	able	-	
CMR e	ffects (ca	arcinogenicity; mutagenicit	y; re	eproductive t	oxicity)			
Carcino	ogenicity	<i>r</i> :	Bas	Based on available data, the classification criteria are not met.				
Mutag	Mutagenicity in vitro:			Based on available data, the classification criteria are not met.				
Genote	Genotoxicity:			sed on availa	ble data, the classifica	ition c	riteria are not met.	
Mutag	Mutagenicity in vivo:			sed on availa	ble data, the classifica	ition c	riteria are not met.	
Germ o	cell muta	genicity:	Bas	sed on availa	ble data, the classifica	ition c	riteria are not met.	
Reprod	ductive to	oxicity:	Based on available data, the classification criteria are not met.					
Summa proper	,	evaluation of the CN	ИR	Based on a	available data, the cla	assifica	ation criteria are not	
11.2 Inform	ation on	other hazards:						
11.2.1. Endocr	rine disru	ipting properties:						
compo disrupt Article regulat	The substance/mixture does not concomponents considered to have endocdisrupting properties according to REA Article 57(f) or Commission Delegate regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.19							
11.2.2. Other	informat	ion:						

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



Page 11 of 16

Trading name:	GOLD CHLORIDE, 0.2% SOLUTION						
Product code:	ZK02-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	-
					NI-	
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Crustacea: Algae/aquatic plants	EC <sub>50</sub>	48 hours 72 hours		information	information	-

Abiotic degradation

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

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

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



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

amended by Regulation (EU) No. 2020/878 Page 12 of 16

				90 12 01 10			
Trading name:	GOLD CHLORIDE, 0.2% SOLUTION						
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

12.3	Bioaccum	ulative p	otential									
	Octanol-w	ater pa	rtition coef	ficient (	log Kov	v)						
Value Concentration pH					°C	М	ethod		Evalua	ation		Note
				-	_			-		-		
	Bioconcen	tration	factor (BCF	)								
V	alue		Species			Method	I		Evaluatio	on		Note
No info availabl	rmation e	No availal		nation	No inf availal	ormatic	on		information	on	_	
	Chronic ed	cotoxicit	:y									
	Value		Dose	•	osure ime	Spe	ecies	ľ	Method Evaluat		ation	Note
Chronic	toxicity on	fish	LC <sub>50</sub>		No information available		mation ible	1	ormation ailable	No inform availab		-
	toxicity on ea ( <i>Daphnia</i>	·)	EC <sub>50</sub>	No infor avail	mation able	No inforr availa	mation ible		ormation ailable	No inform availab		-
			·					i		<u> </u>		
12.4	Mobility in	n soil										
	Known or	predicte	ed distribut	ion in e	environr	mental c	ompart	men	its:			
	No inform		/ailable									
	Surface te	nsion:								-		
	Value		°C	С	oncentr	ation		М	ethod			Note
	No informatio available		ormation ailable		informailable	ation	No inf availab		ation	-		



Page 13 of 16

Trading name:	GOLD CHLORIDE, 0.2% SOLUTION						
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

	Adsorption / desorption									
Transpor	t A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note					
Soil-wate	No information available	No information available	No information available	No information available	-					
Water-air	r No information available	No information available	No information available	No information available	-					
Soil-air	No information available	No information available	No information available	No information available	-					
	Results of PBT and vPvB asses		onents considered to	o have endocrine d	isrupting 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.									
12.6.	Endocrine disrupting propert	ies								
·	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 further relevant information	on available.								
SECTION	I 13. Disposal consideration	S								
13.1	Waste treatment methods									
13.1.1.	Product/Packaging disposa	ŀ								
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.									
	Submit for disposal to the I		rized by the Ministr	y of Environmental	and Nature					
13.1.2.	Submit for disposal to the I	egal person autho		y of Environmental	and Nature					
	Submit for disposal to the I Protection.	egal person autho	) Law:							
	Submit for disposal to the I Protection.  Waste codes/waste designated to the I Protection.	egal person autho ntions according to ontains residual ha	) Law:							
13.1.2.	Submit for disposal to the I Protection.  Waste codes/waste designated 15 01 10*: Packaging that consubstances	egal person autho ntions according to ontains residual ha	) Law:							



Page 14 of 16

Trading name:		GOLD CHLORIDE, 0.2% SOLUTION					
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	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 provision	ons:				
	Disposal must be made accor	ding to official regulations.				
SECTION	1 14. Transport information					
-	Transporting/shipment by road	I (ADR)				
UN numb	oer:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing o	group:	-				
Environm	entally hazardous:	-				
Special precautions for user:		-				
Transporting/shipment by rail (RID)						
UN number:		Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport hazard class(es):		-				
Packing group:		-				
Environmentally hazardous:		-				
Special precautions for user:		-				
	Inland waterway transport (ADI	N)				
UN numb	per:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing group:		-				
Environmentally hazardous:		-				
Special precautions for user:		-				
-	Transporting/shipment by sea (IMDG)					
UN number:		Not subject to transport regulations				
UN prope	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing group:		-				



Page 15 of 16

Trading name:	GOLD CHLORIDE, 0.2% SOLUTION				
Product code:	ZK02-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

.1 Safety, health and	Safety, health and environmental regulations/legislation specific for the substance or mixture  EU regulations						
EU regulations							
Authorization and	or restrictions of use						
Authorizations:	-						
Restrictions:	-						
Other EU regulati	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);						



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

amended by Regulation (EU) No. 2020/878

Page 16 of 16

Trading name:		6 SOLUTION			
Product code:	Product code: ZK02-OT-X**		21 Dec 2022	Version:	4

	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessment	
	None	

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

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



Page 1 of 17

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

1.1.	Product identifier				
	Trade name:	NUCLEAR F	AST RED (K	(ERNECHTROT) REAGENT	
	Chemical name:	-	-		
	Catalogue number:	KR-OT-X**	KR-OT-X**		
1.2.	Relevant identified us	es of the subs	tance or mi	ixture and uses advised against	
	Uses: Uses advised against: Reason why uses advised against:		Count	erstain in many special staining kits.	
			Only t	he identified uses are advised.	
			medic	The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.	
1.3.	Details of the supplier of the safety data sheet				
	Supplier: BioG		ioGnost Ltd	l.	
	Address: Medj		ledjugorska	a 59, Zagreb	
	Telephone number: +385		385 1 2409	5 1 2409997	
	Telefax: +385		385 1 2404	5 1 2404039	
	e-mail of competent person: msds		ısds@biogr	ls@biognost.hr	
	National contact:	National contact: -			
1.4.	Emergency telephone number				
	National Protection a	nd Rescue Dir	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regul	lation (EC) No 1272/2008 (CLP)				
	Hazard class and catego	ry code: Hazard statement*:				
	Not identified as hazardous subs	stance				
2.1.2.	Additional information					
	-					
* For fu	ıll text of Hazard- and EU Hazard-s	tatements: see SECTION 16				
2.2.	Label elements					
	Product identification:	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
	Identification number: -					
	Authorisation number: -					
	Hazard pictograms:	-				



Page 2 of 17

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

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

SECTION 3. Com	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
6409-77-4/ 229-088-0/ -	-	≤ 1%	Disodium 1-amino-2,4- dihydroxy-9,10-dihydro- 9,10-dioxoanthracene-3- sulphonate		

SECTI	ON 4. First aid measures	
4.1.	Description of first aid meas	ures
	General notes:	-
	Following inhalation:	Remove person to fresh air. If breathing stops, immediately apply artificial respiration. If breathing difficulties occur, use emergency breathing apparatus. If the symptoms persist, immediately consult a physician.
	Following skin contact:	Remove all contaminated clothes using sterile gauze. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the oral cavity, drink 1-2 glasses of water. Do not induce vomiting. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.
	Self-protection of the first aider:	-
4.2.	Most important symptoms a	and effects, both acute and delayed
	Following inhalation:	No information available
	Following skin contact:	No information available
	Following eye contact:	No information available
	Following ingestion:	No information available



Page 3 of 17

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

4.	.3.	Indication of any immediate medical attention and special treatment needed
		No information available

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

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



Page 4 of 17

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

6.3.1.	Bunding, covering of drains; capping procedures:	Sand bags.	
6.3.2.	Cleaning up:	Where possible, soak up the product using inert matter, such as sand, silica gel, saw dust). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.	
6.3.3.	Other information:	Recovery of contaminated area should only be conducted by qualified person that uses stipulated protective equipment. Prevent the waste water from entering waterways.	
6.4.	Reference to other sections		
	See Section 7 for information about secure handling.		
	See Section 8 for information about personal protective equipment.		
	See Section 13 for info	rmation about containment.	

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



Page 5 of 17

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

	Advices for storage equipment:	Keep away from heat, flames, sparks and sunlight.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)	
	Recommendations:	Secure stations for rinsing eyes and showering in the vicinity of work area.
	Industrial sector specific solutions:	-

SECTION 8. I	xposur	e contro	ols/persona	l protect	tion				
8.1. Con	trol para	meters							
Substance		CAS No			Occupational exposure limit values/short term values		Biological limit values		
					ppm	mg/m³			
-			-		-	-		-	
Substance name:	-								
EC No:	-		CAS No:	-					
DNEL									
					Industrial				
Route of exp	ocuro:	Acute effect		Acute effect		Chronic e	effect	Chronic effect	
Noute of exp	osuie.		local		systemic	emic local		systemic	
Oral		-		-		-		-	
Inhalation		-		-		-		-	
Dermal		-		-		-		-	
Critical physic	al paran	neters: s	olubility, fla	mmabilit	y, corrosivity:				
					Consumer				
Route of exp	ocura.	Acu	te effect	Ad	cute effect	Chronic e	effect	Chronic effect	
Noute of exp	osure.		local	!	systemic	local		systemic	
Oral		-		-		-		-	
Inhalation		-		-		-		-	
Dermal		-		-		-		-	
PNEC									
Environmenta	al protec	tion targ	get		PNEC	PNEC			
Fresh water					No info	No information available			



Freshwater sediments

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

No information available

Page 6 of 17

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

			<u>l</u>
Marine wa	ater		No information available
Marine se	diments		No information available
Food chai	'n		No information available
Microorga	anisms in sewage treatment		No information available
Soil (agric	cultural)		No information available
Air			No information available
8.2.	Exposure controls		
8.2.1.	Appropriate engineering control	S	
	Substance/mixture related measures to prevent exposure during identified uses:		product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:	In acco	rdance with Section 7.
	Organisational measures to prevent exposure:	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent exposure:		proper workspace ventilation in order to keep tration levels in air below permitted levels.
8.2.2.	Personal protection equipment		
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower f concentration in air; protective gas mask that covers the ace in case of higher levels of concentration in air.
8.2.2.2.	Skin protection		
	Hand protection:		ive gloves must be according to the EU Directive 25/EEC and standard 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) with long sleeves (EN 13034), and shoes that cover the entire for (EN 10335).	
8.2.2.3.	Respiratory protection:		e mask or half mask equipped with a combined "A-P" filter ed when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No info	rmation available
8.2.3.	Environmental exposure controls		
	Substance/mixture related measures to prevent exposure:	See Sec	tion 6



Page 7 of 17

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

9.1.	Information on basic physical ar	nd chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	red	No information available
	Odour/odour threshold:	No information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient noctanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	Other information		

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



Page 8 of 17

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

10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.
10.3.	Possibility of hazardous reactions:	No information available.
10.4.	Conditions to avoid:	No information available.
10.5.	Incompatible materials:	No information available.
10.6.	Hazardous decomposition products:	No information available.

11.1. Information	n on toxicological effe	cts				
Acute toxic	ity:					
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposu	re time	Results
Oral:	No information available	_	No information available	No infor avail		_
Dermal:	No information available	_	No information available	No infor avail		_
Inhalation:	No information available	_	No information available	No infor		_
Specific tar	get organ toxicity – si	ngle exposure (	(STOT SE):			
	Specific 6	effects	Target or	Target organ		Note
Oral:	No information avail	able	No information a	No information available -		
Dermal:	No information avail	able	No information a	No information available -		
Inhalation:	No information avail	able	No information a	No information available -		
Aspiration	hazard:	-				
leritation of	nd corrosion					
IIIItation ai	Exposure tim	ne Sr	pecies Evaluatio	n Me	ethod	Note
Skin corrosion/irritation:	-	-	-	-		No information available
Serious eye damage/irritation	-	-	-	-		No information available



Page 9 of 17

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

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



Page 10 of 17

Trade name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT									
Product code: KR-OT-X**		Date of compilation:		14 November 2022		Version: 4		4		
Chronic inhalation	No info	ormation le	No information available	No informat available		No information available	No information	on	-	
Specific	target o	rgan toxic	rity – repeated e	xposure (S	STOT	RE):				
<u> </u>		1	Specific effects	•		Target orga	n		No	te
Subacute oral	bacute oral No information availa		mation available	e	No in	formation availa	ble	-		
Subacute dermal No infor		rmation available No in		No in	formation availa	ble	-			
Subacute inhalation No inform		rmation available No in		information available		-				
Subchronic oral		No infor	rmation available No in		o information available		-			
Subchronic dermal No inform			rmation available No ir		No in	o information available		-		
Subchronic inhalation No infor			rmation available No		No information available		-			
Chronic oral No inform		rmation available No		No in	No information available		-			
Chronic dermal		No infor	rmation available No i		No in	formation availa	ble	-		
Chronic inhalation No information availal		mation available	e	No in	formation availa	ble	_			
CMR ef	fects (car	cinogenic	ity; mutagenicity	y; reprodu	ctive 1	coxicity)				
Carcino	genicity:			No information available						
Mutage	enicity <i>in-</i>	vitro:		No information available						
Genoto	Genotoxicity:			No information available						
Mutage	Mutagenicity in-vivo:			No information available						
Germ c	ell mutag	enicity:		No information available						
Reproductive toxicity:			No infor	matic	n available					
Summa propert	-	valuation	of the CMR	No infor	matic	n available				
11.2. Informa	ation on c	other haza	ırds:							
11.2.1. LIIUUCII	Endocrine disrupting properties:									

SECTION 12. General notes:
12.1. Toxicity

No known endocrine disrupting properties

that affect human health.

Other information:

11.2.2.



Page 11 of 17

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

Acute (short-terr toxicity	n) Do	se Expo		Species	Method	Eval	uation	No	ote
Fish	LC <sub>50</sub>	96 ho	ıırc	No information available	-	No inforr available	mation	-	
Crustacea: EC <sub>50</sub>		48 ho	iirc	No information available	-	No inforr available	mation	-	
Algae/aquatic pl	ants IC <sub>50</sub>	72 ho	ıırc	No information available	-	No inforr available	nation	-	
Other organisms	-	-		_	-	-		-	
Chronic (long-te toxicity	rm) Do	se Expo		Species	Method	Eval	uation	No	ote
Fish	LC <sub>50</sub>	96 ho	iirc	No information available	-	No inforr available	mation	-	
Crustacea:	EC <sub>50</sub>	48 ho	iirc	No information available	-	No inforr available	mation	-	
Algae/aquatic pl	ants IC <sub>50</sub>	72 ho	ıırc	No information available	-	No inforr available	mation	-	
Other organisms	-	-		-	-	-		-	
	nce and deg degradation	•				****			
	Degrada	tion half-live	S	Method		E۱	/aluation		Note
Marine water		tion available					ation available		-
Fresh water		tion available					ation available		-
Air		tion available					nation available -		-
Soil	No information available No information available No information available -					-			
Biodegr	adation								
% Degradation		(days)		Method	Eva	aluation	Note		
No information available	No available	No information No		information available No		No information		ormation availab	
12.3. Bioaccu	mulative po								
_	-water parti								



Trade name:

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

**NUCLEAR FAST RED (KERNECHTROT) REAGENT** 

Page 12 of 17

Bioconcentration factor (BCF)   Value	4
Value         Species         Method         Evaluation         Note           No information available         Species         Method         Evaluation           Chronic toxicity on fish         LC <sub>50</sub> No information available         No No No No Information available         information available         available           Chronic toxicity on toxi	mation
No information available    No information available   No information available   No information available   No information available	
Available available available available available available available available  Chronic ecotoxicity  Value Dose Exposure time Species Method Evaluation  Chronic toxicity on fish LC50 Information available available available available available  Chronic toxicity on FC50 Information information available information information information available information information information information available information information information available information inform	
Value     Dose     Exposure time     Species     Method     Evaluation       Chronic toxicity on fish     LC <sub>50</sub> No information available     No information available     No information available     No information information available     No information information available	
Value     Dose     Exposure time     Species     Method     Evaluation       Chronic toxicity on fish     LC <sub>50</sub> No information available     No information available     No information available     No information available     No information information available     No information information available	
Chronic toxicity on fish  Chronic toxicity on  Chronic toxicity on  Chronic toxicity on  Chronic toxicity on  FCro.  Chronic toxicity on  FCro.  No  Information	
Chronic toxicity on fish LC <sub>50</sub> information available information available information available information available information information available information informat	Note
Chronic toxicity on FC <sub>co</sub> information information information information -	
crustacea (Daphnia) available available available available available	
12.4. Mobility in soil	
Known or predicted distribution in environmental compartments:	
No information available	
Surface tension:	
Value °C Concentration Method Note	
No information available No information available No information available -	
Adsorption / desorption	
Transport A/D coefficient log Kow Evaporation rate Method Note	<b></b>



Page 13 of 17

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

			•	•	ī	
Soil-wa	ter No availabl	information e	No information available	No information available	No information available	-
Water-a	air No availabl	information e	No information available	No information available	No information available	-
Soil-air	No availabl	information e	No information available	No information available	No information available	-
12.5.	Results of PB	T and vPvB asses	ssment			
	No informati	on available				
12.6.	Endocrine dis	srupting propert	ies			
	No known er	ndocrine disrupti	ng properties that	affect the environm	nent.	
12.7.	Other advers	e effects				
	No informati	on available				
SECTIO	N 13. Disposa	al consideration	s			
13.1.	Waste trea	tment methods				
13.1.1.	Product/Pa	ickaging disposa	l:			
	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 Low:					
	15 01 10*: packaging that contains residual hazardous substances or is contaminated with hazardous substances					
13.1.3.	Waste trea	tment – relevant	information:			
	No informa	ation available				
13.1.4.	Sewage dis	sposal – relevant	information:			
	Waste mus	t not be dispose	d of into the sewa	ge system.		
	Other disno	osal recommend	ations:			
13.1.5.	Other dispo					



Page 14 of 17

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

	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community pr	ovisions:
		agement Act, Ordinance on Waste Management, Regulation on categories, types te with waste catalog and list of hazardous waste
SECTIO	N 14. Transport informati	ion
SECTIO	Transporting/shipment by	
UN number:		Not subject to transport regulations
	per shipping name:	-
	rt hazard class(es):	-
Packing group:		-
Environmental hazards:		_
Special precautions for user:		-
•	Transporting/shipment by	rail (RID)
UN num		Not subject to transport regulations
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environi	mental hazards:	-
Special	precautions for user:	-
	Transporting/shipment by	r inland waterways (ADN)
UN num	nber:	Not subject to transport regulations
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environi	mental hazards:	-
Special	precautions for user:	-
	Transporting/shipment by	r sea (IMDG)
UN num	nber:	Not subject to transport regulations
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environi	mental hazards:	Not subject to transport regulations



Page 15 of 17

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

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

5.1. Safety, health and en	ealth and environmental regulations/legislation specific for the substance or mixture				
EU regulations					
Authorisations and/o	restrictions of use				
Authorisations:	-				
Restrictions:	-				
Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);				



Page 16 of 17

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

	National regulation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Transport of Hazardous Substances Act
15.2.	Chemical safety assessment	
	None	

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

**ANNEX:** 

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 



#### **SAFETY DATA SHEET**

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

Page 17 of 17

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

-			



Page 1 of 17

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

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

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



Page 2 of 17

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

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

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

SECTI	FION 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 medical attention and special treatment needed			
	-			

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

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



Page 4 of 17

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

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

SECTIO	SECTION 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	asures to prevent fire:			
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:	er measures:			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	noroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incon	npatibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight. Manufacturer's original packaging.  Keep away from food and drink. Keep the containers tightly closed.  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.			
	Packaging materials:				
	Requirements for storage rooms and vessels:				
	Advices for storage equipment:				



Page 5 of 17

Trading name:		OXALIC ACID, 1% S	OLUTION		
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. Expo	sure contr	ols/perso	nal prote	ection				
8.1 Control p	arameters							
Substance CAS No				•	exposure limit term values	Biological limit values		
				р	pm	mg/m³	-	
-				-	-	-		
				<b>.</b>				
Substance name:	-							
EC No:	-	CAS No	: -					
DNEL		•						
				Ind	ustrial			
Route of	Acute Acute			ute		Chronic	Chronic	
exposure:	effect	local	cal effect systemic		effect local		effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
Critical physical pa	rameters: s	solubility,	flammabi	lity, corr	osivity:	-		
				Con	sumer			
Route of	Ad	cute	Ac	ute		Chronic	Chronic	
exposure:	effec	t local	effect s	systemic		effect local	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
PNEC								
Environmental pro	tection tar	get			PNEC			
Fresh water				no inforn	nation available			
Freshwater sedime	ents				no inforn	nation available		
Marine water					no inforn	nation available		
Marine sediments					no information available			



Food chain

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

Page 6 of 17

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

no information available

Microorga	anisms in sewage treatment		no information available	
Soil (agric	cultural)		no information available	
Air			no information available	
8.2	Exposure controls			
8.2.1.	Appropriate engineering contro	ols		
	Substance/mixture related mea		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to prevent exposure:		In accordance with Section 7.	
	Organisational measures to pre exposure:	event	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent	exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment	ent		
8.2.2.1.	Eye and face protection:	levels	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.	
8.2.2.2.	Skin protection			
	Hand protection:		otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min	
	Other skin protection:	footwe entire imperr	g everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.	
8.2.2.3.	Respiratory protection:	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 contro	ols		
	Substance/mixture related measures to prevent exposure:	See Se	ection 6	



Page 7 of 17

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

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

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

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



Page 8 of 17

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

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

	exicological information on hazard classes		n Regulatio	n (FC) No 1272/20	nn8		
Acute t		us delifica i	Tr Regulatio	11 (20) 110 12/2/2			
Route of exposure:	Method Spec			e Dose LD <sub>50</sub> /LC <sub>50</sub> r ATE <sub>mixture</sub>	Exposure	time	Results
Oral:	No information available	_	No infor	mation available	_		_
Dermal: No information available		_	No infor	mation available	-		_
Inhalation:	No information available	-	No infor	mation available	_		-
Specific	c target organ toxicity -		sure (STOT	SE):			
	Specific effects		Target organ		n	Note	
Oral:	No information available		No information available			-	
Dermal:	No information av	nformation available		No information available			
Inhalation:	No information av	vailable	No information available		able	-	
Aspirat	ion hazard:	N	o informatio	on available.			
Irritatio	n and corrosion						
	Exposure t	ime	Species	Evaluation	Method		Note
Skin corrosion/irritati	ion:	-		-	<b>–</b>	-	
Serious eye damage/irritatio	n -	-		-	-	-	
Sensitiz	zation						
Skin sensitizatio	n: No infor	mation availa	able.				
Respiratory sens	sitization: No infor	mation availa	able.				



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 informa	ation available.				
Dermal exposure	e: No informa	ntion available.				
Inhalation expos	ure: No informa	ntion available.				
Eye exposure:	No informa	ntion available.				
Repeate	ed dose toxicity (su	ıbacute, subchro	onic, chronic)	ı	:	:
	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	<b>–</b>
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	<b>-</b>
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-



Page 10 of 17

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

Subacute oral	No information available	2		No information available	-			
Subacute dermal	No information available	2		No information available	-			
Subacute inhalation	No information available	9		No information available	-			
Subchronic oral	No information available	9		No information available	-			
Subchronic dermal	No information available	9		No information available	-			
Subchronic inhalatio	nic inhalation No information available			No information available	-			
Chronic oral	No information available	e e		No information available	-			
Chronic dermal	No information available	9		No information available	-			
Chronic inhalation	inhalation No information available			No information available	-			
CMR effects	(carcinogenicity; mutagenici	ty; re	productive t	toxicity)				
Carcinogeni	Carcinogenicity:			able data, the classification o	riteria are not met.			
Mutagenicit	Mutagenicity in vitro:			Based on available data, the classification criteria are not met.				
Genotoxicit	Genotoxicity:			able data, the classification o	riteria are not met.			
Mutagenicit	y in vivo:	Bas	sed on availa	able data, the classification o	riteria are not met.			
Germ cell m	utagenicity:	Bas	sed on availa	able data, the classification o	criteria are not met.			
Reproductiv	e toxicity:	Bas	sed on availa	able data, the classification o	criteria are not met.			
Summary	of evaluation of the C	MR	Rased on	available data, the classific	ation criteria are not			
properties:	or evaluation of the e		met.	available data, the classific	ation entena are not			
<u>:</u>								
11.2 Information	on other hazards:							
11.2.1. Endocrine d	isrupting properties:		:					
component	nce/mixture does not con s considered to have endoc	rine						
	oroperties according to REA f) or Commission Delega							
	(EU) 2017/2100 or Commiss							
Regulation ( higher.	(EU) 2018/605 at levels of 0.19	% or						
11.2.2. Other inforr	mation:							

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



Page 11 of 17

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

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

			ion

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



Page 12 of 17

Tradin	ng name	:				0	XALIC	ACID,	1% SOLUTI	ON			
Produ	ct code:	•	OKS1	-OT-X**		Date	of co	mpilati	on: 21 D	ec 2022	١	Version:	4
12.3	Bioacc	umu	lative n	otential									
12.0			•	tition coe	fficient	(log Kow	)						
Valu			centrat		рН	°C		ethod	Eval	uation		Note	
-	-			-		-	-		-		-		
		ncent	tration	factor (BC	-)		المدار	J	F. 1			NI-+	
	Value ormation		No	Species	mation	No info	Method		Evalua <sup>a</sup> No informa			Note	
availab		tion No information available			availab		ווע	available	lion	-			
	Chroni	ic ec	otoxicit	у									
	Value	Э		Dose		oosure time	Spe	ecies	Method	Evalua	ation	Note	
					No		No		No	No			
Chroni	c toxicity	on f	fish	LC <sub>50</sub>	infor avail	rmation		mation	information	informa		-	
					No	iabie	availa No	abie	available No	availab No	ie		
	c toxicity cea ( <i>Dapl</i>			EC <sub>50</sub>		rmation		mation	information	1	ation	-	
Crustac	.еа (Бирі	iiiia)			avail	lable	availa	able	available	availab	le		
10.4	NA 1 '11'		''										
12.4	Mobili			d distribu	tion in	onvironn	ontal a	omport	monts:				
			ation av	ed distribu	uon m	environin	ientai (	Jonipart	ments.				
	Surface			anabic									
	Val			°C	C	Concentra	ation		Method			Note	
	No		Nc	)	Nic	o informa	tion	No inf	ormation				
	inform availab			ormation ailable		ailable	ition	availak		-			
	avalidi	JIE .	avo	anavie									
			<u></u>		<u></u>			<u>.i.</u>		<u> </u>			



Page 13 of 17

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

•	Adsorption / desorption				
Transport A/D coefficient log Kow Henry's constant		Evaporation rate	Method	Note	
Soil-wate	No information available No information available No information available No information available				-
Water-air  No information available  No information available  No information available  No information available		information	-		
Soil-air	No information available	No information available	No information available	No information available	-
	Results of PBT and vPvB asses				
	The substance/mixture does i according to REACH Article 5 Regulation (EU) 2018/605 at I	7(f) or Commission	n Delegated regulation		
12.6.	Endocrine disrupting properti	es			
	The substance/mixture does i according to REACH Article 5 Regulation (EU) 2018/605 at I	7(f) or Commission	n Delegated regulation (		
12.7	Other adverse effects				
	No further relevant information	on available.			
SECTION	I 13. Disposal consideration	<u> </u>			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	<u>.</u>			
	Submit for disposal to the learning of the lea		rized by the Ministry of	Environmental a	and Nature
13.1.2.	Waste codes/waste designa	tions according to	o Law:		
	15 01 10*: Packaging that c substances	ontains residual ha	azardous substances or	is contaminated	l with hazardous
13.1.3.	Waste treatment – relevant	information:			



Page 14 of 17

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

	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 recommenda	ations:				
	authorized by the ministry in	act's remains into the sewage system. Submit the remains to the collectors or charge. Do not dispose of the packaging into the sewage system. Submit ors authorized by the ministry in charge.				
13.1.6.	Relevant Community provisi	ons:				
	Disposal must be made acco	ording to official regulations.				
SECTION	N 14. Transport information					
	Transporting/shipment by roa	d (ADR)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing	group:	-				
Environn	nentally hazardous:	-				
Special p	recautions for user:	-				
	Transporting/shipment by rail	(RID)				
UN num	ber:	Not subject to transport regulations				
UN proper shipping name:		-				
Transpor	t hazard class(es):	-				
Packing	group:	-				
Environn	nentally hazardous:	-				
Special p	recautions for user:	-				
	Inland waterway transport (AD	DN)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transport hazard class(es):		-				
Packing group:		-				
Environn	nentally hazardous:	-				
Special p	recautions for user:	-				
	Transporting/shipment by sea	(IMDG)				
UN num	ber:	Not subject to transport regulations				



Page 15 of 17

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

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

SECTI	ON 15. Regulatory information	ation				
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorization and/or rest	trictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);				



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

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



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

Page 17 of 17

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

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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

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

Page 1 of 16

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

1.1.	Product identifier	Product identifier				
	Trading name:	POTAS	SIUM PERMANO	IANGANATE, 0.5% SOLUTION		
	Chemical name:	-				
	Catalogue number:	KP05-C	)T-X**			
1.2.	Relevant identified us	es of the s	substance or mi	xture and uses advised against		
	Uses:		For use with	special staining kits.		
	Uses advised against:		Only the ide	ntified uses are advised.		
	Reason why uses advi	sed	The product is intended for use only as an <i>in vitro</i> diagnodevice, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purpos			
1.3.	Details of the supplier	of the sa	fety data sheet			
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb +385 1 2409997			
	Telephone number:					
	Fax no.:		+385 1 24040	+385 1 2404039		
	e-mail of competent	person:	msds@biogn	nost.hr		
	National contact:		-			
1.4.	Emergency telephone	number				
	National Protection a	nd Rescue	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regulat	tion (EC) No 12	72/2008 (CLP)			
	Hazard class and category	code:	Hazard statements*:			
	Aquatic Chronic 3		H412			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-sta	tements: see S	ection 16			
2.2.	Label elements					
	Product identification:	POTASSIUM F	PERMANGANATE, 0.5% SOLUTION			
	Identification number: -					
	Authorization no.: -					
	Hazard pictograms:	_				



Page 2 of 16

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

	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					
	Endocrine Disrupting Properties:					
2.3.	Other hazards					
	Further information:	-				
	Precautionary statements:	P273 Avoid release to the environment P501 Dispose of contents/container in accordance with local regulations.				
	Hazard statements:	H412 Harmful to aquatic life with long lasting effects.				
	Signal word:	-				

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

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

### **SECTION 5 Firefighting measures**



Page 3 of 16

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

5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit 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	N 6. Accidental release meas	ures		
6.1.	Personal precautions, protect	ive equipment and emergency procedures		
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Wear protective equipment (see Section 8).			
6.2.	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and material for cor	ntainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	-		
6.4.	Reference to other sections			



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

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



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

										Page 5 of 16
Trading na	me:		P	OTAS	SIUM	PERMAN	GAN	ATE, 0.	5% SOLU	ΓΙΟΝ
Product code: KP05		KP05-O	KP05-OT-X**		Date of compilation:		21 De	ec 2022	Version: 6	
			1			1			T	
Potassium permanganate 7722-64-7			54-7		-		5	No infor	mation available	
Substance										
name:	-									
EC No:	-		CAS No:	-						
DNEL			•							
					Inc	dustrial				
Route of		A	Acute		Acut	e		Chro	nic	Chronic
exposure:		effe	ect local	е	ffect sys	temic		effect	local	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
Critical phys	sical par	ameters:	solubility, fla	mmab				-		
				I		nsumer	ı			
Route of			Acute		Acute			Chronic effect local		Chronic
exposure:		effe	ect local		ffect sys	temic		effect	local	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal PNEC		-		-			-			-
Environmen	ntal prot	oction tar	ant			PNEC				
Fresh water	•	ection tai	gei				mation	ı availah		
Freshwater		nts			No information available  No information available					
Marine water		113				No inform				
Marine sedi						No inforr				
Food chain						No inforr				
Microorgan	isms in	sewage tr	eatment			No inforr				
Soil (agricul						No inforr	mation	n availab	le	
Air						No inforr	mation	n availab	le	
8.2.	Exposu	ıre contro	ls							
8.2.1.	Appro	priate eng	ineering cor	ntrols						
	measu		ure related vent exposu d uses:	re						Jse personal protective he workspace.
Structural measures to prevent exposure:			ent	No information available						



Page 6 of 16

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

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

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					



Page 7 of 16

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

	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	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.				

SECTION 11. Toxic	SECTION 11. Toxicological information									
11.1. Information	n on toxicological effe	cts								
Acute toxic	ity:									
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

Trading name:			POTASS	SIUM P	ERMANG	ANA	TE, 0.5	% SOLUTI	ON		
Product code:	KP	05-OT-X**	[	Date of compila		on: 21 Dec 20		c 2022	Vers	ion:	6
Inhalation exposure:	ľ	No information available	on	-	L	_C <sub>50</sub>		-			-
Specific	target	organ toxicit	y – single ex	posure (	STOT SE):						
		Spe	cific effects			Targe	et orgar	1		No	te
Oral exposure:		No informa	ation availab	e	No inform	atior	n availab	ole	-		
Dermal exposure:	•	No informa	ation availab	e	No inform	atior	n availab	ole	-		
Inhalation exposu	ıre:	No informa	ation availabl	e	No inform	atior	n availab	ole	-		
Respirat	ory irri	tation:		No info	rmation ava	ailabl	e				
Irritation	and c	orrosion									
		Exposure tim	ie Spe	ecies	Evalu	uatio	n	Method		No	te
Skin irritation:	-		-		-			_	-		
Eye irritation:	-		-		_			-	-		
	•								•		
Sensitiza	ition										
Dermal exposure:	: No	information	available								
Inhalation	No	information	available	vailable							
exposure:											
								.•			
		ted to the pl		ical and	toxicologic	cal ch	iaracteri	stics			
Oral exposure:		information									
Dermal exposure	: No	information	available								
Inhalation exposure:	No	information	available								
Eye exposure:	No	information	available								
Repeate	d dose	toxicity (sub	acute, subch	ronic, ch	nronic)						
		Dose	Exposure time	Spec	ies	Met	hod	Evaluation	l	Note	е
Subacute oral	No i	information ble	No information available	No n infor avail	mation able		rmatio ailable	No inform available	ation	-	
Subacute dermal	No i	information ible	No information available	No n infor avail	mation able		rmatio ailable	No inform available	ation	-	



Page 9 of 16

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

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

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



Page 10 of 16

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

	Germ cell mutagenicity:	No information available					
	Reproductive toxicity:	No information available					
	Summary of evaluation of the CMR	R properties: -					
11.2	Information on other hazards:						
11.2.1.	Endocrine disrupting properties:						
	The substance/mixture does not co components considered to endocrine disrupting propaccording to REACH Article 57( Commission Delegated regulation 2017/2100 or Commission Regul (EU) 2018/605 at levels of 0.19 higher.	have erties (f) or - (EU)					
11.2.2.	Other information:						
	-						

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



Page 11 of 16

Trading name:			P	OTAS	SIUM PERMAN	GAN	ATE, 0.5% SOL	UTION		
Product code:		:	KP05-OT-X	**	I	Date of compila	tion:	21 Dec 2022	Version	: 6
								·	,	ı
Algae/aquatic plants			IC <sub>50</sub>	72 hours		No information available		rmation lable		
Other o	rganisn	ns	-	-		-	-	-	-	
			3	•	•			·		
12.2.	Persist	tence	e and degrada	bility						
	Abioti	c de	gradation							
		D	egradation ha	lf-lives		Method		Evalua	tion	Note
Marine water		No	information av	ailable	No	information avail	able	No information	available	-
Fresh w	ater	No	information av	ailable	No	information avail	able	No information	available	-
Air		No	information av	ailable	No	information avail	able	No information	available	-
Soil		No	information av	ailable	No	information avail	able	No information	available	-
	Biode	grad	ation							
% Degr	adation	n	Time (day	s)	Method		Evaluation		ote	
No info			No information available					No information No infor		ion
							1			
12.3.	Bioaco	umı	ulative potentia	al						
	Partiti	on c	oefficient: n-o	tanol/w	ater (lo	g Kow):				
Value	e	Cor	ncentration	рН	°C	Method		Evaluation	N	lote
	١	Ю	information			No information		No information	_	
	a	vaila	ble			available		available		
		ncen	tration factor (							
	alue		Specie			Method		Evaluation		lote
No info		1	No infor available	mation	No in availa	formation ble		o information ailable	No inform available	nation
	Chron	ic ec	otoxicity							



Page 12 of 16

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

Value	Dose	Exposur time	e Sp	ecies	Method	Evalua	tion	Note
oxicity on fish	LC <sub>50</sub>	information inf		nformation information		No inform available	nation	-
Chronic toxicity on crustacea ( <i>Daphnia</i> )					No information available	No inform available	! _	
Mobility in soi	l							
Known or pred	dicted distribut	on in envir	onmental	compart	ments:			
No informatio	n available							
Surface tensio	n:							
Value	°C	information No information		on Method  No information available			Note -	
No information available	No informati available					lable		
Adsorption / c	lesorntion							
A/D o		log Ka		Evapor	ation rate	Mothod		Note
Henry	's constant	log Kc	)VV	Evapor	ation rate	Method		Note
No available	information	No inform available			ation	No information available	ı -	
r No available	information	No inform		No information available		No information - available		
No available	information	No inforn available		No information available		No information available	۱ -	
	oxicity on (Daphnia)  Mobility in soi Known or preconstruction (No information	moxicity on (Daphnia)  Mobility in soil  Known or predicted distribution available  Surface tension:  Value  C  No information available  Adsorption / desorption  A/D coefficient Henry's constant  No available  No information available  No information available	oxicity on fish  CC50  No information available  Mobility in soil  Known or predicted distribution in environ available  Surface tension:  Value  C Concount of the control	oxicity on fish	oxicity on fish  LC50  No information available  Oxicity on (Daphnia)  EC50  No information available  Mobility in soil  Known or predicted distribution in environmental compart  No information available  Surface tension:  Value  C Concentration  No information available  No information available  No information available  Adsorption / desorption  A/D coefficient Henry's constant  No information available  No information No information No information available	oxicity on fish	Oxicity on fish  CC50  NO information available  Oxicity on (Daphnia)  EC50  NO information available  NO information available	oxicity on fish  LCso  No information available  No information available

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

#### 12.6. Endocrine disrupting properties



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
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
10.10	
13.1.3.	Waste treatment – relevant information:
	No information available
1214	Saving a disparal relayant information.
13.1.4.	Sewage disposal – relevant information:  Wasta must not be disposed of into the sawage system
	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:
	-
SECTIO	N 14. Transport information
	Transporting/shipment by road (ADR)
UN nun	
UN pro	per shipping name:  Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transpo	ort hazard class(es): 9



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

Page 14 of 16

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

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



Page 15 of 16

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

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

<b>SECTIO</b> 15.1.	ON 15. Regulatory information  Safety, health and environmental regulations/legislation specific for the substance or mixture					
13.1.	EU regulations	interital regulations/registation specific for the substance of mixture				
	Authorization and/or rest	rictions of use				
	Authorizations: -					
	Restrictions:	-				
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);				
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessme	ent				
	None					

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



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

Page 16 of 16

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

16.2.	Abl	oreviations and acronyms	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  IMDG: International Maritime Code for Dangerous Goods  IATA: International Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent  PBT: Persistent, Bioaccumulative and Toxic  vPvB: very Persistent and very Bioaccumulative	
16.3.		literature references and lirce of data:	-	
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classifi	Classification		Classification procedure	
-			-	
16.5.	Rel	evant H statements (num	per and full text)	
		272	May intensify fire; oxidiser.	
		302	Harmful if swallowed.	
	H:	400	Very toxic to aquatic life.	
		410	Very toxic to aquatic life with long lasting effects.	
		413	May cause long lasting harmful effects to aquatic life.	
16.6.	Tra	ining advice:	-	
16.7.	Further information: We ins		** "X" in the product code marks different volumes (different packagings of the product)  We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX:	A	N	N	EX	:
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**Exposure scenario resulting to Chemical safety assessment** 

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

Page 1 of 16

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

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	SILVER AMI	MONIA SC	DLUTION		
	Chemical name:	-	-			
	Catalogue number:	SA-OT-X**				
1.2	Relevant identified us	es of the subst	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:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent person:		msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ON 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and car	tegory code:	Hazard statements*:			
	Aquatic Chronic 3 H412					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Haza	ard-statements: see	SECTION 16			
2.2	Label elements					
	Product identification:	SILVER AMMO	NIA SOLUTION			
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	-				



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

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 PBT or a vPvB.					

SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
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	ION 4. First aid measures	
4.1	Description of first aid measu	ires
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.



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 effects, both acute and delayed					
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.				
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.				
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.				
	Following ingestion:	Danger of gastric perforattion.				
4.3	Indication of any immediate medical attention and special treatment needed					
	-					

SECTIO	SECTION 5. Firefighting measures							
5.1	Extinguishing media	Extinguishing media						
	Suitable extinguishing media:	Water spray, foam, 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: 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	Additional information						
	Do not contaminate the environment	ent with extinguishing media.						

SECTIO	SECTION 6. Accidental release measures					
6.1	Personal precautions, protective	equipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment: Use personal protective equipment (see Section 8).					
	Accident prevention methods: Evacuate members of all non-essential personnel and those mem without protective equipment. Avoid breathing vapors and avoid cor with skin and eyes. Do not smoke.					
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).					
6.2	Environmental precautions:					



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

SECTIO	ON 7. Handling and storage						
7.1	Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat.				
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.					
	Other measures:		-				
7.1.2.	Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.				
7.2	Conditions for safe storage, including any incompatibilities						
	Technical measures and storage conditions:		htly closed and upright set containers at res ranging from +2 to +8 °C.				
	Packaging materials:  Manufaction contained co		ufacturer's original packaging. Avoid metal ainers.				
	Requirements for storage rooms and vessels:	Keep away tightly clos	away from food and drink. Keep the containers ly closed.				
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drair ly leads into sewage system. Secure proper				



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

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:	-

<b>SECTION 8. Expos</b>	SECTION 8. Exposure controls/personal protection								
8.1 Control pa	arameters								
Substance		CA	CAS No va		supational exposure limit slues/short term values		Biological limit values		
					ppm	mg/m³			
-			-		-	-	-		
Substance name:	_								
EC No:	_	CAS No	: -						
DNEL		C/ 15 110	•						
21122				Ind	ustrial				
Route of	Acute Acute				Chronic	Chronic			
exposure:	effect local effect systemic		stemic			effect systemic			
Oral	-	-			-		-		
Inhalation	-		-		-		-		
Dermal	-		-		-		-		
Critical physical par	rameters: s	solubility,	flammabilit	ty, corr	osivity:	-			
				Con	sumer				
Route of exposure:	Act effect		Acu <sup>-</sup> effect sy:		Chronic ic effect local		Chronic effect systemic		
Oral	-		-		-		-		
Inhalation	-		-		-		-		
Dermal	-		-		-		-		
PNEC									
Environmental protection target				PNEC					
Fresh water					no information available				
Freshwater sediments					no information available				
Marine water	Marine water				no information available				
Marine sediments	Marine sediments				no information available				



Page 6 of 16

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

Food chai	n		no information available		
Microorga	anisms in sewage treatment		no information available		
Soil (agric	cultural)		no information available		
Air			no information available		
8.2	Exposure controls	controls			
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to 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. 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:	Protective nitrile gloves, >0.11 mm thick (EN 374).			
	Other skin protection:		intistatic 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:	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present.			
8.2.2.4.	Thermal hazards:	No information available			
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Section 6			
	Structural measures to prevent exposure:	Use modern equipment.			
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions o workplace.			
	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			
Lower and upper explosion limit:	No information available	No information available			
Flash point:	No information available	No information available			
Auto-ignition temperature:	No information available	No information available			
Decomposition temperature:	No information available	No information available			
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	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			



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

Page 8 of 16

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

11.1 Information		lasses as defined in	Regulation	(FC) No 1272	/2008		
Acute toxic		lasses as actifica iii	Regulation	(LC) NO 1212	72000		
Route of exposure:	Method	Species		<sub>50</sub> /LC <sub>50</sub> or E <sub>mix</sub>	Exposure t	ime	Results
Oral:	-	No information available		_	No informatio available	on	_
Dermal:	-	No information available		1	No informatio available	on	-
Inhalation:	-	No information available			No informatio available	on	-
Specific tar	<u> </u>	xicity – single expos	ure (STOT S				
		pecific effects		Target or			Note
Oral:		tion available		No information available		-	
Dermal:	No informa	tion available	No i	nformation av	ailable	-	
Inhalation:	No informa	tion available	No i	nformation av	vailable	-	
Irritation ar	nd corrosion						
	Ехро	osure time	Species	Evaluatio	n Method	d	Note
Skin corrosion/irritation:	-	-		-	-	-	
Serious eye damage/irritation	-	-		-	-	-	
Sensitizatio	n						
Skin sensitization:	_						
Respiratory sensitiza	tion: -						
. ,							
	ralated to th	e physical, chemical	and toxicol	ogical charac	teristics		
Symptoms	related to th						
		nation available.					
<u>:</u>	No infor	mation available. mation available.					
Oral exposure:	No infor						



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

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

Page 9 of 16

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

Repeate	d dose t	oxicity (sub	acute, subchro	onic, chronic)			
		Oose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No in availab	formation le	No information available	No information available	No information available	No informatio available	on -
Subacute dermal	No in availab	formation le	No information available	No information available	No information available	No informatio available	n -
Subacute inhalation	No in availab	formation le	No information available	No information available	No information available	No informatio available	on -
Subchronic oral	No in availab	formation le	No information available	No information available	No information available	No informatio available	on -
Subchronic dermal	No in availab	formation le	No information available	No information available	No information available	No informatio available	on -
Subchronic inhalation	No in availab	formation le	No information available	No information available	No information available	No informatio available	on -
Chronic oral	No in availab	formation le	No information available	No information available	No information available	No informatio available	on -
Chronic dermal	No in availab	formation le	No information available	No information available	No information available	No informatio available	on -
Chronic inhalation	No in availab	formation le	No information available	No information available	No information available	No informatio available	on -
Specific	target o	rgan toxicit	<u> </u>	xposure (STOT			
<u> </u>		N	Specific effec	ts	Target o		Note
Subacute oral			tion available		No information		-
Subacute dermal			tion available		No information		-
Subacute inhalat Subchronic oral			tion available		No information		-
					No information		-
Subchronic dermal No inform			don available		i vo mnomnatiOi	i avallable	



Page 10 of 16

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

Chronic	oral	No information available		No information available	-
Chronic	dermal	No information available		No information available	-
Chronic	inhalation	No information available		No information available	-
	CMR effects	carcinogenicity; mutagenicity; re	eproductive t	coxicity)	
	Carcinogenicity:		No informa	ation available.	
	Mutagenicity in vitro:		No informa	ation available.	
	Genotoxicity:		No informa	ation available.	
	Mutagenicity	in vivo:	No information available.		
	Germ cell mu	tagenicity:	No informa	ation available.	
	Reproductive	toxicity:	No informa	ation available.	
	Summary o properties:	f evaluation of the CMR	No informa	ation available.	
11.2.	Information of	on other hazards:			
11.2.1.	Endocrine dis	srupting properties:			
	No known e that affect hu	ndocrine disrupting properties Iman health.			
11.2.2.	Other inform	ation:			
	-				

SECTION 12. Ecologic	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	



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

Page 11 of 16

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

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	-	-	-	-	-	-

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

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

	paccumulative potenti		. // /	<u> </u>		
Uc	tanol-water partition	coefficien	t (log Kow	")		
Value	Concentration	рН	°C	Method	Evaluation	Note
-	-	-	-	-	-	-



Page 12 of 16

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

	code: S	A-OT-X**		Date o						
Valu	ıe	Species		Me	ethod	Εν	aluatio	on		Note
No informa available		lo inform vailable	ation	No inforr available	mation	No info		on	-	
Cł	hronic ecoto	oxicity								
\	Value	Dose	:	osure ime	Species	Meth	iod	Eva	aluation	Note
Chronic to	xicity on fisl	h LC <sub>50</sub>	No infor availa	mation i	No nformation available	No informa availab			rmation lable	-
Chronic tox crustacea (	-	EC <sub>50</sub>	No infor availa	mation i	No nformation available	No informa availab		_	rmation lable	-
	1obility in so	edicted distributi	on in e	environme	ntal compart	ments:				
Kr N	nown or pre lo information	edicted distributi on available on:								
Kr No Su No in	nown or pre lo informatio urface tensio Value	edicted distributi on available	C No	environmer oncentration information	on	Metho			_	Note
Kr No Su No in	nown or pre lo information urface tension Value lo nformation	edicted distribution available on: °C No information	C No	oncentratio	on on No int	Metho			_	Note
Kr No Su No in av	nown or pre lo information urface tension Value lo nformation	edicted distribution available on:  °C  No information available	C No	oncentratio	on on No int	Metho				Note
Kr No Su No in av	nown or pre lo informatio urface tensio Value lo information vailable  dsorption /	edicted distribution available on:  °C  No information available	No ava	oncentratio	on on No int	Metho formation ble	1	Metho		Note
Kr No Su No in av	nown or pre lo informatio urface tensio Value lo information vailable  dsorption / A/D Henr	edicted distribution available on:  °C  No information available  desorption coefficient by's constant information	No ava	oncentration information ilable	on No intavaila	Methorble formation ble on rate	1	nform	od	
No Su No in av	nown or pre lo informatio urface tensio Value lo information vailable  dsorption / A/D Henr	edicted distribution available on:  °C  No information available  desorption coefficient by s constant information e information	No availa	oncentration information able	Evaporati No inforn	Methorble on rate	No ir availa	nformable	od ation	

#### 12.5 Results of PBT and vPvB assessment



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

Page 13 of 16

Trading ı	name:		SILVER AMMONIA	SOLUTION		
Product	code:	SA-OT-X**	Date of compilation:	21 Dec 2022	Version:	6
			s no components considered to Indiverse bioaccumulative (vPvB) at	•		e and
12.6. E	ndocrine	e disrupting properties	5			
a	according	to REACH Article 57(	ot contain components considered f) or Commission Delegated regulates of 0.1% or higher.			
12.7.	Other adv	verse effects				
١	No inforn	nation available				
CECTION	42 D'					
13.1	-	reatment methods				
13.1	vvuste t	reatment methods				
13.1.1.	Product	/Packaging disposal:				
	Submit Protecti		al person authorized by the Mini	stry of Environment	al and Nature	
13.1.2.	Waste c	odes/waste designati	ons according to Law:			
	Packagi	ng that contains resid	ual hazardous substances or is co	ontaminated with ha	azardous substan	ices
13.1.3.	Waste t	reatment – relevant ir	nformation:			
	No info	rmation available				
13.1.4.	Sewage	disposal – relevant in	formation:			
	Waste r	nust not be disposed	of into the sewage system.			
13.1.5.	Other d	isposal recommendat	ions:			
	Do not authoriz	dispose of the producted by the ministry in	ct's remains into the sewage syste charge. Do not dispose of the pa rs authorized by the ministry in c	ckaging into the sev		
13.1.6.	Relevan	t Community provisio	ns:			
SECTION	14 TRAI	NSPORT INFORMATI	ON			
7	ransport <b>-</b>	ing/shipment by road	(ADR)			
UN numb	er:		3082			



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

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:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)
Transport hazard class(es):	9
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
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:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver ammonium)
Transport hazard class(es):	9
Packing group:	Ш
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:	III
Environmentally hazardous:	-
Special precautions for user:	-



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

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.
----------------------	---

15.1	ON 15. Regulatory information 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:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessme	ent
	None	

SECTION 16. Other information	
16.1 Indication of changes:	-



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

Page 16 of 16

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

16.2	Abl	previations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  IMDG: International Maritime Code for Dangerous Goods  IATA: International Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent  PBT: Persistent, Bioaccumulative and Toxic  vPvB: very Persistent and very Bioaccumulative			
16.3.	3. Key literature references and source of data:		-			
16.4.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classif	catio	า	Classification procedure			
_			-			
16.5.	Rel	evant H statements (numl	per and full text)			
		272	May intensify fire; oxidiser.			
		314	Causes severe skin burns and eye damage.			
	H:	400	Very toxic to aquatic life.			
		410	Very toxic to aquatic life with long lasting effects.			
		412	Harmful to aquatic life with long lasting effects			
16.6.	Tra	ining advice:	<u>-</u>			
16.7. Further information:		ther information:	** "X" in the product code marks different volumes (different packagings of the product)  We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this			
			material safety data sheet.			

A	ANNEX: Exposure scenario resulting to chemical safety assessment
-	



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

Page 1 of 16

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

SECTIO	ON 1. Identification of	the substa	nce/mixture a	nd of the company/undertaking		
1.1.	Product identifier					
	Trading name:	SODIUM	1 THIOSULFATE	, 5% SOLUTION		
	Chemical name:	-				
	Catalogue number:	NT5-OT	-X**			
1.2.	Relevant identified uses of the substance or mixture and uses advised against					
	Uses:		For use with s	special staining kits.		
	Uses advised against:		Only the iden	tified uses are advised.		
	Reason why uses advis	sed	The product is intended for use only as an <i>in vitro</i> diagnostic med device, registered at the Agency for Medicinal Products and Medic Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier	of the safe	ety data sheet			
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biogno	ost.hr		
	National contact:		-			
1.4.	Emergency telephone	number				
	National Protection ar	nd Rescue	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ECTION 2. Hazards identification					
2.1.	Classification of the substance or	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	ation (EC) No 12	272/2008 (CLP)			
	Hazard class and category	/ code:	Hazard statements*:			
	Not identified as hazardous subst	ance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-sta	atements: see S	ection 16			
2.2.	Label elements					
	Product identification:	SODIUM THI	DSULFATE, 5% SOLUTION			
	Identification number: -					
	Authorization no.:	-				
	Hazard pictograms:	-				



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

Page 2 of 16

Trading name:	S			
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Signal word:	-			
	Hazard statements:	-			
	Precautionary statements:	-			
	Further information:	-			
2.3.	Other hazards				
	Endocrine Disrupting Properties	:			
	No known endocrine disrupting properties				
	<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)			
7772-98-7/ 231-867-5/ -	-	5 %	sodium thiosulphate	not classified			

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



Page 3 of 16

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

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

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

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



Page 4 of 16

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

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

SECTION	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. 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:	-			



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

amended by Regulation (EC) No. 1907/2006

amended by Regulation (EU) No. 2020/878

Page 5 of 16

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

-		ols/person	ai protec	uon			
8.1. Control para	meters						
Substance					ccupational exposure limit values/short term values		Biological limit values
				ppm	1	mg/m³	
-		-		-		-	No information available
Substance - name:							
EC No: -		CAS No:	-				
DNEL			·		•		
				Indust	rial		
Route of	A	Acute		Acute		Chronic	Chronic
<b>exposure:</b> ef		ect local	effe	ct system	ic	effect local	effect systemic
Oral		-			-	-	
Inhalation	-			-	-		
Dermal	Dermal			-		-	-
Critical physical para	meters: s	solubility, fla	ammabili	ty, corrosi	vity:	-	
				Consu	mer		
Route of	A	Acute	Acut			Chronic	Chronic
exposure:	effe	ect local	effect sys		ic	effect local	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
PNEC							
Environmental protection	ction tar	get		PN	PNEC		
Fresh water				No	No information available		
Freshwater sediment	S			No	No information available		
Marine water				No	No information available		
Marine sediments				No	No information available		
Food chain				No	No information available		
Microorganisms in sewage treatment			No	No information available			
Soil (agricultural)				No	No information 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 pre exposure:	event	No information available	
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.	
8.2.2.	Personal protection equip	ment		
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) ovisor.		
8.2.2.2.	Skin protection			
<u> </u>	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 fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN ) used when concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No inf	ormation available	
8.2.3.	Environmental exposure of	ontrols		
	Substance/mixture related measures to prevent expo		See Section 6	
	Structural measures to pre exposure:	event	Use modern equipment.	
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.	
	Technical measures to pre exposure:	event	See Section 6	

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



Page 7 of 16

Trading name:	S	_			
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
Lower and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available
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.	11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008				
	Acute toxicity:				



Page 8 of 16

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

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



Page 9 of 16

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

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

	Specific 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	c inhalation	No informa	tion available	No information available	-
	CMR effects (	(carcinogenicity	y, mutagenicity, re	eproductive toxicity)	
	Carcinogenic	ity:	Based on av	ailable data, the classification criteria	a are not met.
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criteria	a are not met.
	Genotoxicity:		Based on av	ailable data, the classification criteria	a are not met.
	Mutagenicity	in-vivo:	Based on av	ailable data, the classification criteria	a are not met.
	Germ cell mutagenicity: Based on a			ailable data, the classification criteria	a are not met.
	Reproductive	toxicity:	Based on av	ailable data, the classification criteria	a are not met.
	Summary of o	evaluation of th	ne CMR propertie	s: -	
				S: -	
	Information o	on other hazard	ds:	S: -	
	Information of Endocrine dis	on other hazard	ds: rties:	s: -	
11.2	Information of Endocrine dis The substance components endocrine according to Commission 2017/2100 of Endocrine dis Endocrine according to Commission 2017/2100 of Endocrine dis Endocrine dis Endocrine according to Commission 2017/2100 of Endocrine dis Endocrine dis Endocrine dis Endocrine according to Commission 2017/2100 of Endocrine dis E	on other hazard	ds: rties: s not contain to have properties cle 57(f) or ulation (EU) Regulation	s: -	
	Information of Endocrine dis The substance components endocrine according to Commission 2017/2100 of (EU) 2018/66	on other hazard srupting proper e/mixture does considered disrupting or REACH Artion Delegated reg or Commission 05 at levels	ds: rties: s not contain to have properties cle 57(f) or ulation (EU) Regulation	S:   -	

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



Page 11 of 16

Trading name:	S	ODIUM 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. Pers	istence and degradability			
Abio	tic 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	-

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

Value	rtition coefficient: n-o  Concentration	рН	°C	Method	Evaluation	Note
-	No information available	-	-	No information available	No information available	-



Page 12 of 16

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

١	Value		Species	Met	thod	Evaluation		Note	
No info	ormation ble	No availa	informati able	on No informa available	ition	No information available	No info	ormation ava	ilable
	Chronic	ecotoxic	city						
	Value		Dose	Exposure time	Species	Method	Eva	luation	Note
Chroni	c toxicity o	on fish	LC <sub>50</sub>	information	No information available	No information available	No info	ormation ble	-
	c toxicity o		EC <sub>50</sub>	information	No information available	No information available	No info	ormation ble	_
12.4.	Mobility	in soil							
	Known	or predic	ted distributi	on in environme	ntal compar	tments:			
	No info	mation a	available						
	Surface	tension:		1				1	
	Valu	e	°C	Concentrati	on	Method		N	ote
	No informa available	tion ir	lo nformation vailable	No informati available	on No int	formation avail	able	-	
	Adsorpt	ion / des	sorption						
		A/D coe	efficient	log Kow	Evapo	ration rate		Method	Note
Transp	ort	Henry's	constant			-	No inf	ormation	
Transp Soil-wa	No.	Henry's	information	No information available	No inforn available	nation	availab		-
	ater No	Henry's			available		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

12.5.	Results of PBT and vPvB assessment
***************************************	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.6.	Endocrine disrupting properties
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7.	Other adverse effects
	No information available
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
	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.
1216	Relevant Community provisions:
13.1.6.	



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

Page 14 of 16

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

SECTION 14. Transport information	
Transporting/shipment by roa	ad (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	I (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 (AI	ON)
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	a (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	(ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-



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

Page 15 of 16

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

Special precautions for us	ser:	-
Further information:	-	

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

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



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

Page 16 of 16

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

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

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**Exposure scenario resulting to Chemical safety assessment** 

-



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

amended by Regulation (EU) No. 2020/878

Page 1 of 16

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

SECTION	ON 1. Identification of t	he substa	ance/mixture a	nd of the company/undertaking	
1.1.	Product identifier				
	Trading name:	SULFUR	IC ACID, 3% SOL	LUTION	
	Chemical name:	-			
	Catalogue number:	SK3-OT	-X**		
1.2.	Relevant identified use	es of the s	ubstance or mix	ture and uses advised against	
	Uses:		For use with s	pecial staining kits.	
	Uses advised against:		Only the ident	tified uses are advised.	
	Reason why uses advis	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	Emergency telephone number			
	National Protection ar	d Rescue	Directorate:	112	
	Medical information: Other information:			+385 1 2348 342	
				-	

SECTIO	ECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regula	ation (EC) No 12	272/2008 (CLP)			
	Hazard class and category	y code:	Hazard statements*:			
	Not identified as hazardous subs	tance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-st	atements: see S	ection 16			
2.2.	Label elements					
	Product identification:	SULFURIC AC	CID, 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 Properties	:	
	No known endocrine disrupting properties		
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a PBT or a vPvB.		

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

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



Page 3 of 16

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

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

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

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



Page 4 of 16

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

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

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 we ventilated storage rooms, and away from sources of hea sunlight, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the 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	

-		ols/person	ai protec	uon			
8.1. Control para	meters						
Substance					ccupational exposure limit values/short term values		Biological limit values
				ppm	1	mg/m³	
-		-		-		-	No information available
Substance - name:							
EC No: -		CAS No:	-				
DNEL			·		•		
				Indust	rial		
Route of	A	Acute		Acute		Chronic	Chronic
exposure:	effe	ect local	effe	ct system	ic	effect local	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
Critical physical para	meters: s	solubility, fla	ammabili	ty, corrosi	vity:	-	
				Consu	mer		
Route of	A	Acute		Acute		Chronic	Chronic
exposure:	effe	ect local	effect systemic		ic	effect local	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
PNEC							
Environmental protection	ction tar	get		PN	PNEC		
Fresh water				No	No information available		
Freshwater sediments			No	No information available			
Marine water			No	No information available			
Marine sediments			No	No information available			
Food chain			No	No information available			
Microorganisms in sewage treatment			No	No information available			
Soil (agricultural)				No	No information available		
Air				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 prexposure:	event	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pro exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	ment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection				
	standa		tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374.  Glove material: nitrile rubber		
	Hand protection:		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 fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN ) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation available		
8.2.3.	Environmental exposure	controls			
	Substance/mixture related measures to prevent exposure:		See Section 6		
	Structural measures to pr exposure:	event	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pro exposure:	event	See Section 6		

SECTIO	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
Lower and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available
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:		SULFURIC ACID, 3%	6 SOLUTION		
Product code:	SK3-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results
Oral exposure:	No information available	-	LD <sub>50</sub>	_	-
Dermal exposure:	No information available	-	LD <sub>50</sub>	-	-
Inhalation exposure:	No information available	-	LC <sub>50</sub>	_	-
Specific ta	rget organ toxicity – s	ingle exposure	(STOT SE):		
	Specific	effects	Target organ		Note
Oral exposure:	No information	available	No information available	-	
Dermal exposure:	No information	available	No information available	-	
nhalation exposure: No information		available	No information available	-	
	y irritation:		ormation available		
Respirator			1		
Respirator	y irritation:		1	Meth od	Note
Respirator	y irritation: nd corrosion	No info	ormation available		Note
Respirator Irritation a	y irritation:  nd corrosion  Exposure time	No info	ormation available  Evaluation	od	Note
Respirator  Irritation a  Skin irritation:	y irritation:  nd corrosion  Exposure time	No info	ermation available  Evaluation	od	Note
Respirator  Irritation a  Skin irritation:  Eye irritation:	y irritation:  nd corrosion  Exposure time	Species	ermation available  Evaluation	od	Note
Respirator  Irritation a  Skin irritation:  Eye irritation:	y irritation:  nd corrosion  Exposure time	Species	ermation available  Evaluation	od	Note
Respirator  Irritation a  Skin irritation:  Eye irritation:  Sensitizati  Dermal exposure:  Inhalation exposure:	y irritation:  nd corrosion  Exposure time  on  No information avai	Species ilable	ermation available  Evaluation	od	Note
Respirator  Irritation a  Skin irritation:  Eye irritation:  Sensitization  Dermal exposure: Inhalation exposure:  Symptoms	y irritation:  nd corrosion  Exposure time  on  No information avai	Species ilable ilable al, chemical and	Evaluation	od	Note
Respirator  Irritation a  Skin irritation:  Eye irritation:  Sensitizati  Dermal exposure:  Inhalation exposure:	y irritation:  nd corrosion  Exposure time  On  No information avai  No information avai	Species  ilable ilable al, chemical and vailable	Evaluation	od	Note
Respirator  Irritation a  Skin irritation:  Eye irritation:  Sensitizati  Dermal exposure: Inhalation exposure:  Symptoms  Oral exposure:	y irritation:  nd corrosion  Exposure time  on  No information avaitation	Species  ilable ilable al, chemical and vailable vailable	Evaluation	od	Note



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

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



Page 10 of 16

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

Chronic	inhalation	No informat	ion available	No information available	-	
	CMR effects (	carcinogenicity,	mutagenicity, re	eproductive toxicity)		
	Carcinogenici	ity:	Based on ava	ailable data, the classification criteria	are not met.	
	Mutagenicity	in-vitro:	Based on ava	ailable data, the classification criteria	are not met.	
	Genotoxicity:		Based on ava	ailable data, the classification criteria	are not met.	
	Mutagenicity	in-vivo:	Based on ava	ailable data, the classification criteria	are not met.	
	Germ cell mu	tagenicity:	Based on ava	ailable data, the classification criteria	are not met.	
	Reproductive	toxicity:	Based on ava	ailable data, the classification criteria	are not met.	
11.2	Information o	on other hazards	5:			
11.2.1.	Endocrine dis	Endocrine disrupting properties:				
	components endocrine according to Commission 2017/2100 o	e/mixture does considered disrupting REACH Articl Delegated regu r Commission D5 at levels o	to have properties e 57(f) or lation (EU) Regulation			
11.2.2.	components endocrine according to Commission 2017/2100 o (EU) 2018/60	considered disrupting REACH Articl Delegated regu r Commission D5 at levels o	to have properties e 57(f) or lation (EU) Regulation			

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. Persi	istence and degradability			
Abio	tic 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 available									

12.3.	Bioaccumulative potenti	al							
	Partition coefficient: n-octanol/water (log Kow):								
Valu	Value Concentration pH °C Method Evaluation Note								
-	No information available	-	-	No information available	No information available	-			

Bioconcentration factor (BCF)



Page 12 of 16

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

,	/alue		Species	M	ethod	Evaluation		Note	•
No information No available avail		No avail	informati able	on No inform available	nation	No information available	No inf	ormation av	ailable
	Chronic e	ecotoxio	city						
	Value		Dose	Exposure time	Species	Method	Eva	luation	Note
Chroni	c toxicity o	n fish	LC <sub>50</sub>	No information available	No information available	No information available	No info	ormation ble	-
	c toxicity o cea ( <i>Daphn</i>		EC <sub>50</sub>	No information available	No information available	No information available	No info	ormation ble	-
	Known o	1.							
	No infor	mation		on in environm	nental compa	rtments:			
	No infor	mation ension:	available						Nota
	No infor	mation ension:		Concentra  No informa available	ition	rtments:  Method  nformation avail	able	-	Note
	No information No information	mation ension:	°C No nformation	Concentra No informa	ition	Method	able		Note
	No information No information	ension:  Pension:  Pension:  Pension:  An in in a	°C  No Information Invailable	Concentra No informa	ition	Method	able		Note
Transp	No information available  Adsorption	mation rension:  Pension:  Note:  Note:  Note:  Note:  A/D co	°C  No Information Invailable	Concentra No informa	tion No ir	Method			Note
	No information available  Adsorption ort  No information available	on / des	°C No nformation vailable  sorption efficient	Concentra No informa available	tion No ir	Method  nformation avail  oration rate  mation		- Method ormation	
Transp Soil-wa	No information available  Adsorption ort  Adso	on / des A/D co- Henry's	°C No nformation vailable  sorption efficient constant	Concentra No informa available log Kow No information	Evap  No infor available	Method  nformation avail  oration rate  mation  mation	No infavailab	- Method ormation ole ormation	



Page 13 of 16

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

12.5.	Results of PBT and vPvB assessment
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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
12.7.	No information available
	No information available
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.	waste treatment metrious
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.
12.1.5	Other disposal recommendations:
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	_



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

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 ro	ad (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 rai	il (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 (A	DN)
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 se	a (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	r (ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-



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

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

Page 15 of 16

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

Special precautions for user:		-
Further information:	-	

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

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



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

amended by Regulation (EU) No. 2020/878

Page 16 of 16

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

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

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**Exposure scenario resulting to Chemical safety assessment**