

ORCEIN KIT

The kit contains:

Acid alcohol, Orcein
Orcein reagent
Oxalic acid, 2% solution
Potassium permanganate, 1% solution
Sulfuric acid, 0.3% solution



Page 1 of 17

Trading name:	ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

SECTI	ON 1: Identification of t	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	ACID ALCO	HOL, ORC	EIN	
	Chemical name:	-			
	Catalogue number:	KAO-OT-X*	**		
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with Orcein staining kit.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advis			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	of the safety	data shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	TION 2. Hazards identification				
2.1	Classification of the substan	Classification of the substance or mixture			
2.1.1	Classification according to F	Regulation (EC) No 12	272/2008 (CLP)		
	Hazard class and cat	egory code:	Hazard statements*:		
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Haza	ird-statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	ACID ALCOHOL	, ORCEIN		
	Identification number:	-			
	Authorization number:	-			



Page 2 of 17

Trading name:	ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

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

SECTION 3. Co	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	60 - 80 %	ethanol	Flam. Liq. 2; H225	
7647-01-0/ 231-595-7/ 017-002-00-2	-	< 1 %	hydrochloric acid, 37%	Skin Corr. 1B; H314 STOT SE 3; H335	

SECTIO	SECTION 4. First aid measures				
4.1	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificial respiration. In case of complaints call a physician.			



Page 3 of 17

Trading name:	ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

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

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



Page 4 of 17

Trading name:	ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

5.4	Additional information
	-

SECTIO	ON 6. Accidental release measu	ıres	
6.1	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
	Protective equipment:	Use personal protective equipment (see Section 8).	
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment.	
	Emergency procedures:	Mark the area using proper signs.	
6.1.2.	For emergency responders:		
	ventilation. Vapours may accur	nd clothing and inhaling gases, vapours and aerosols. Ensure adequate nulate at floor level in low and confined spaces. Remove all heat, ignition chines. Ignition spark arrestor must not be operated in the danger area. Use the risk of slipping.	
6.2	Environmental precautions:		
	not allow the product and the	resulting waste according to the applicable environmental regulations. Do resulting waste to enter sewers/soil/surface or ground water. Notify the lance with local law in the case of environmental pollution immediately.	
6.3	Methods and material for conta	ainment and cleaning up	
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.	
6.3.2.	Collect the spilled product with inert, non-combustible absorbent (e.g sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal.		
6.3.3.	()ther information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).	
6.4	Reference to other sections		
	See Section 7 for information of	on safe handling.	
		on personal protection equipment.	
	See Section 13 for disposal info	ormation.	

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



Page 5 of 17

Trading name:	ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use non-sparkling tools and equipment.		
	Measures to prevent aerosol and dust generatio	n:	Ensure adequate ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. The	oroughly wa	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	away fron unopened from oxid	Store in a well-ventilated place, protected from sunlight, away from sources of heat and ignition, in its original, unopened and hermetically sealed packaging, away from oxidizing agents, food, feed and articles of consumption.		
	Packaging materials:	Manufactı	Manufacturer's original packaging.		
	Requirements for storage rooms and vessels:	ements for storage rooms and vessels: Keep away from food and drink. Keep the containe tightly closed.			
	Advices for storage equipment:		ge must be made of hard material; floors must nt to chemicals. There must be no drain that eads into sewage system. Secure proper n.		
	Further information on storage conditions:	and do r	ace the unused material in the storage room not use empty containers for storing other . Do not store with incompatible materials (see 0).		
7.3	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			

SECTION 8. Exposure controls/personal protection						
8.1 Control parameters	Control parameters					
Substance	CAS No	•	exposure limit term values	Biological limit values		
		ppm	mg/m³			
Ethanol	64-17-5	1000/-	1900/-	-		
Hydrogen chloride	7647-01-0	5/10	8/15	-		
		-	•			



SAFETY DATA SHEET

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

Page 6 of 17

Trading nar	ne:		ACID ALCOHOL, ORCEIN					
Product cod	de:	KAO-OT	-X**	Revisi	on date	: 21 Dec 2022	Version: 7	
Substance na	ame:	_	1					
EC No:		-	CAS No	-				
DNEL								
				In	dustrial			
Route of		Acu		Acute		Chronic	Chronic	
exposure:		effect	local	effect systemi	ic	effect local	effect systemic	
Oral		1000	, 2	-	-		-	
Inhalation		1900 mg (ethanol)		-	-		380 mg/m³ (ethanol)	
Dermal		-		-	-		343 mg/kg (ethanol)	
Critical physi	ical para	ameters: s	olubility,	flammability, co	rrosivity:	-		
				Co	onsumer			
Route of		Ac	cute	Acute		Chronic	Chronic	
exposure:		effec	t local	effect system	ic	effect local	effect systemic	
Oral		-		-	-		87 mg/kg bw/day (ethanol)	
Inhalation		950 m (ethan	_	-	-		114 mg/m³ (ethanol)	
Dermal		-	•	-	-		206 mg/kg (ethanol)	
PNEC								
Environment	al prote	ection targ	get		PNEC			
Fresh water					0.96 m	g/l (ethanol)		
Freshwater s	edimen	nts			3.6 mg	/kg (ethanol)		
Marine water	r				0.79 m	g/l (ethanol)		
Marine sedin	ments				2.9 mg	/kg (ethanol)		
Food chain					380-720 mg/kg (ethanol)			
Microorganis	sms in s	sewage tre	eatment		580 mg/l (ethanol)			
Soil (agricult	ural)				0.63 mg/kg (ethanol)			
Air					no information available			
8.2	Exposu	osure controls						
8.2.1.	Approp	oriate engi	ineering	controls				
		bstance/mixture related measures to event exposure during identified uses:		concer concer existing	tration limit it is the	naterial with no controlled e employer's duty to keep to a minimum achievable by nological means, where the no harm to workers.		



Page 7 of 17

Trading name:	ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to preve exposure:	nt	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exp	oosure:	In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Use according to general application methods and with adequate ventilation.		
			Use non-sparkling ventilation system.		
			Provide appropriate personal protective equipment, safety shower and eye-wash station.		
8.2.2.	Personal protection equipment				
8.2.2.1.	EVA and tace protection.		propriate, chemical-proof protective glasses/face shield (EN 321-1:2022, EN 166).		
8.2.2.2.	Skin protection				
	Hand protection:	Use ap	ppropriate, chemical-resistant protective gloves (EN 374).		
	Other skin protection:	Use appropriate protective clothing.			
8.2.2.3.	Respiratory protection:	concer in the contac	e of normal usage and ventilation, it is not necessary. If necessary also be of each of exposure limits air, use a self-contained breathing apparatus. For short and if the oxygen content of the air is greater than 18 %, use excive gas mask with filter A (EN 14837/A1).		
8.2.2.4.	Thermal hazards:	No the	rmal hazards known.		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		
	Structural measures to prevent exposure:	Use mo	odern equipment.		
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to prevent exposure:	See Se	ction 6		

SECT	SECTION 9. Physical and chemical properties				
9.1	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	No information available		
	Colour:	colourless	No information available		



Page 8 of 17

Trading name:		OL, ORCEIN			
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

	Odour/odour threshold:	ethanol like/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	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 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 Section 10.5.		
10.2	Chemical stability:	Stable within normal temperature and general work conditions.		
10.3	Possibility of hazardous reactions:	See Section 10.5.		
10.4	Conditions to avoid:	Keep away from heat, sparks, open flames, strong heating and ignition sources. No smoking.		
10.5	Incompatible materials:	Strong oxidizing agents (inorganic strong acid, nitric acid, perchlorates, peroxy compounds, perchloric acid, permanganates etc.), alkali metals, alkali earth metals.		
10.6	Hazardous decomposition products:	Carbon monoxide and carbon dioxide.		

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



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

amended by Regulation (EU) No. 2020/878

								Page 9 of 1	17
Trading name:				ACID ALC	COHOL, OF	RCEIN			
Product code:	KAO-OT-X*	*	Revis	ion date:	21 D	ec 2022		Version:	7
Route of exposure:	Method	Specie	S	Dose LD ₅		Exposu	re time	Resu	ılts
Oral:	-	rat (ethar	nol)	LC) ₅₀	-		7.060 n	ng/kg
Dermal:	-	rabbit (eth	anol)	LC) ₅₀	_		>20.000) mg/l
Inhalation:	-	rat (ethar	nol)	LC	50	4	h	>8.000	mg/l
Specific tar	get organ tox	icitv – sinale	exposui	re (STOT SI	F)·				
	<u> </u>	ecific effects	•		Target c	organ		Note	
Oral:	No informat			No ir	iformation a		_		
Dermal:	No informat	ion available		No ir	ıformation a	available	-		
Inhalation:	No informat	ion available		No ir	formation a	available	-		
				•			,		
Aspiration	hazard:		No ir	nformation	available.				
Irritation ar	nd corrosion								
	Ехро	sure time	S	Species	Evaluation	on Metl	nod	Note	
Skin corrosion/irritation:	-		_		-	-		-	
Serious eye damage/irritation	-		-		-	-		_	
Sensitizatio	ın								
Skin sensitization:		information	availabl	e.					
Respiratory sensitiza		information							
, ,									
Symptoms	related to the	physical, ch	emical a	nd toxicol	ogical chara	cteristics			
Oral exposure:	unconscio	n of grea ousness and a may occur. R	alcohol p	ooisoning.	In case of sw	allowing g	reat qua	antities, nause	horia, a and
Dermal exposure:	After pro	-	epeated	exposure	symptoms	may inclu	de: de	fatting, dryne	ss and
Inhalation exposure	Inhalation of great quantities may cause dizziness, euphoria and mild irritation of the m						nucous		
Eye exposure:	May cause	e irritation ar	nd redne	ess.					
	•								
Repeated c	lose toxicity (s	subacute, suk	ochronic	, chronic)					



Page 10 of 17

Trading name:	ACID ALCOHOL, ORCEIN					
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7	

	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	4: -: 4			(CTOT DE).
Specific target organ	TOXICITY -	reneated	AVNOSTIPA	$(\times 1())$ RF).

	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 11 of 17

Trading name:		ACID ALCOH	OL, ORCEIN		
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

Chronic inh	nalation	No information	available		No information available	-			
CN	MR effects (ca	rcinogenicity; mu	utagenicity;	reproductive to	oxicity)				
Ca	arcinogenicity	:	I	Based on availa	ole data, the classification o	criteria are not met.			
М	utagenicity <i>in</i>	vitro:	I	Based on availa	ole data, the classification o	criteria are not met.			
Ge	enotoxicity:		I	Based on availa	ole data, the classification o	criteria are not met.			
М	utagenicity <i>in</i>	vivo:	I	Based on availa	ole data, the classification o	criteria are not met.			
Ge	erm cell muta	genicity:	I	Based on availa	ed on available data, the classification criteria are not met.				
Re	Reproductive toxicity:			Based on available data, the classification criteria are not met.					
	ımmary of operties:	evaluation of	the CM	R Based on a met.	vailable data, the classific	ation criteria are not			
•				·········					
11.2 Inf	formation on	other hazards:							
11.2.1. En	ndocrine disru	pting properties:							
	ased on avail adocrine disru	able data, does optors.	not conta	in					
11.2.2. Ot	ther informati	ion:							
-									

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



Page 12 of 17

Trading name:	ACID ALCOHOL, ORCEIN					
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7	

Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

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

Biodegrada	tion			
% Degradation	Time (days)	Method	Evaluation	Note
No information available				
			<u> </u>	

12.3 Bioaco	oaccumulative potential					
Octanol-water partition coefficient (log Kow)						
Value	Concentration	рΗ	°C	Method	Evaluation	Note
Log Pow: ~ 0.32	-	-	_	-	-	The product does not bioaccumulate



Page 13 of 17

Trading name:	ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

		entratio	on factor (BCF)								
\	/alue		Species			lethod		valuatio			Note
BCF: 0.0	66	No ava	inform ilable	ation	No infor		No info	ormatic ole	on	-	
	Chronic	ecotox	ricity								
	Value		Dose		osure ime	Specie	: Metl	nod	Evalu	ation	Note
Chronic	c toxicity c	on fish	LC ₅₀	No infor availa	mation able	No informati available	No on inform availab		No informa availab		-
	c toxicity c cea (<i>Daphr</i>		EC ₅₀	No infor availa	mation able	No informati available	No on inform availab		No informa availab		-
12.4	Mobility	in soil									
	Known	or pred	icted distributi	on in e	environme	ental com	partments:				
	No infor	rmation									
		matioi	n available								
	Surface										
		tensior		C	oncentrat	ion	Metho	od			Note
	Surface	tensior e tion	า:	No	oncentrat informati iilable	ion No	Metho informatio ailable		-		Note
	Surface Valu No information	tensior e tion	°C No information	No	informati	ion No	informatio		-		Note
	Surface Valu No informat available	tension e tion e	°C No information	No	informati	ion No	informatio		-		Note
Transpo	Surface Valu No informat available Adsorpt	tensior e tion e	n: °C No information available	No ava	informati	ion No	informatio	n	- Method		Note
	Surface Valu No informat available Adsorpt	tensior e tion e	n: °C No information available esorption coefficient ry's constant information	No ava	informationinformation	Evapo	ration rate	n	Method	on	
Transpo Soil-wa Water-	Surface Valu No informat available Adsorpt ort	tensior e tion e ion / d A/D Henr	esorption coefficient ry's constant information ble information	No availa	information inform	Evapo n No int	ration rate ormation ole ormation	No in availa	Method nformationable	on	



Page 14 of 17

Trading name:	ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

12.5	Results of PBT and vPvB assessment				
12.0		oes not contain any PBT or vPvB substances.			
12.6.	Endocrine disrupting properties				
	Based on available data, does not con-	ain endocrine disruptors.			
12.7.	Other adverse effects				
	Do not let the product or its residues i	each sewer system, waterways and soil.			
SECTIO	ON 13. Disposal considerations				
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposal:				
	Submit for disposal to the legal pers Protection.	on authorized by the Ministry of Environmental and Nature			
	Protection.				
13.1.2.	. Waste codes/waste designations acc	ording to Law:			
	· 3	ardous substances or is contaminated with hazardous substances			
	3 3				
13.1.3.	. Waste treatment – relevant informat	ion:			
	No information available				
13.1.4.	. Sewage disposal – relevant informat	ion:			
	Waste must not be disposed of into	the sewage system.			
13.1.5.	· · · · · · · · · · · · · · · · · · ·				
	authorized by the ministry in charge	nains into the sewage system. Submit the remains to the collectors e. Do not dispose of the packaging into the sewage system. Submit			
	burnt.	norized by the ministry in charge. Unused product residues may be			
13.1.6.	. Relevant Community provisions:				
	Disposal must be made according to	official regulations.			
SECTIO	ON 14 TRANSPORT INFORMATION				
	Transporting/shipment by road (ADR)				
UN nur	ımber: 117	0			
UN pro	oper shipping name: Etha	nol solution			



SAFETY DATA SHEET

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

Page 15 of 17

Trading name:		ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7	
		4				
Transport hazard class	ss(es):	3				
Packing group:		II				
Environmentally haza	irdous:	-				
Special precautions for	or user:	-				
Transporting	g/shipment by rail (R	ID)				
UN number:		1170				
UN proper shipping r	name:	Ethanol solution				
Transport hazard clas	ss(es):	3				
Packing group:		II				
Environmentally haza	irdous:	-				
Special precautions for	or user:	-				
Inland water	way transport (ADN)					
UN number:		1170				
UN proper shipping r	name:	Ethanol solution				
Transport hazard clas	ss(es):	3				
Packing group:		II				
Environmentally haza	irdous:	-				
Special precautions for	or user:	-				
Transporting	g/shipment by sea (IN	MDG)				
UN number:		1170				
UN proper shipping r	name:	Ethanol solution				
Transport hazard clas	ss(es):	3				
Packing group:		II				
Environmentally haza	ırdous:	-				
Special precautions for	or user:	-				
Transport in bulk accord MARPOL 73/78 an		-				
Transporting	g/shipment by air (IC	AO-TI/IATA-DGR)				
UN number:		1170				
UN proper shipping i	name:	Ethanol solution				
Transport hazard clas	ss(es):	3				
Packing group:		II				
Environmentally haza	rdous:	-				
Special precautions for		_				



Page 16 of 17

Trading name:	ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

15.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture		
	EU regulations			
	Authorization and/or rest	rictions of use		
	Authorizations:	-		
	Restrictions:	-		
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).		
		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

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

Page 17 of 17

Trading name:	ACID ALCOHOL, ORCEIN				
Product code:	KAO-OT-X**	Revision date:	21 Dec 2022	Version:	7

16.2	Abbre	eviations and acronyms.	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.		fication and procedure 2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classif	ication		Classification procedure		
_			-		
16.5.	Releva	ant H statements (numl	oer and full text)		
		225	Highly flammable liquid and vapour.		
	H:	314	Causes severe skin burns and eye damage.		
		335	May cause respiratory irritation.		
16.6.	Traini	ng advice:	-		
16.7.	7. Further information:		** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment
-



Page 1 of 17

Trade name:	ORCEIN REAGENT				
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

SECT	ION 1: Identification	of the substa	ance/mixt	ure and of	the company/undertaking	
1.1.	Product identifier					
	Trade name:	ORCEIN REAGENT				
	Chemical name:	-	-			
	Catalogue number:	ORCR-OT-X	**			
1.2.	Relevant identified	uses of the sul	bstance or	mixture an	d uses advised against	
	Uses:			For use wit	th Orcein kit.	
	Uses advised against:			Only the ic	dentified uses are advised.	
	Reason why uses advised against:			medical de Products a	ct is intended for use only as an <i>in vitro</i> diagnostic evice, registered at the Agency for Medicinal nd Medical Devices and there is no reason to use purposes.	
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGr	BioGnost Ltd.		
	Address:		Medjı	Medjugorska 59, Zagreb		
	Telephone number:		+385	85 1 2409997		
	Telefax:		+385	385 1 2404039		
	E-mail of competer	t person:	<u>msds</u>	sds@biognost.hr		
	National contact: -		-			
1.4.	Emergency telephone numbers					
	National Protection and Rescue Directorate		irectorate:	•	112	
	Medical information:				+385 1 2348 342	
	Other information:			-		

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance	Classification of the substance or mixture				
2.1.1.	Classification according to Reg	gulation (EC) No	o. 1272/2008 (CLP)			
	Hazard class and catego	ory code:		Hazard statement*:		
	Flam. Liq. 2		H225			
2.1.2.	Additional information					
	-	-				
*For fu	ll text of Hazard- and EU Hazard	-statements: se	e Section 16.			
2.2.	Label elements					
	Product identification:	ORCEIN REAC	GENT			
	Identification number:	-				



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

amended by Regulation (EU) No. 2020/878

Page 2 of 17

Trade name:	ORCEIN REAGENT				
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

	Authorisation number:	-			
	Hazard pictograms:	GHS02			
	Signal word:	Danger			
	Warning statement:	H225 Highly flammable liquid and vapor.			
	Precautionary statement:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. 			
	Supplemental hazard information (EU):	-			
2.3.	Other hazards				
	Endocrine Disrupting Properties: No known endocrine disrupting properties Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.				

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	60 - 80 %	ethanol	Flam. Liq. 2; H225			

SECT	SECTION 4. First aid measures					
4.1.	Description of first aid measures					
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.				
	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/footwear. Thoroughly wash with water for at least 15 minutes.				



Page 3 of 17

Trade name:	ORCEIN REAGENT				
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.		
	Following swallowing:	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.	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 swallowing:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.		
4.3.	Indication of any immediate med	lical attention and special treatment needed		
	No information available			

SECT	SECTION 5. Firefighting measures					
5.1.	Extinguishing media	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO2 Large fire - water spray or alcohol-resistant foam				
	Unsuitable extinguishing media:	Water with full jet				
5.2.	Special hazards arising from th	e substance or mixture				
	Hazardous byproducts of fire:	Incomplete combustion of the product.				
5.3.	Advice for firefighters					
	Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing).					
5.4.	Additional information					
	Cool endangered receptacles v contaminate the environment	vith water spray. Collect contaminated fire fighting water separately. Do not 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).				



Page 4 of 17

Trade name:	ORCEIN REAGENT				
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

	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:			
	Self-contained open-circuit con heat dissipation (fireproof cloth	npressed air breathing apparatus, a set for protecting the body from ing).		
6.2.	Environmental precautions:			
	· ·	prevent further spillage of chemicals. Prevent environmental pollution by nter the sewage system, surface water or groundwater.		
6.3.	Methods and materials for cont	tainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials		
6.3.2.	Cleaning up:	Sawdust, sand, mineral adsorbents		
6.3.3.	Other information: Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). 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 info	ormation.		

SECTIO	SECTION 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.				
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				
	Other measures:	Protect against electrostatic charges.				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any inco	ompatibilities				



Page 5 of 17

Trade name:					
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

	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.
	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 10).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection						
8.1. Control para	meters					
Substance	CAS	5 No	Occupational values/short		•	Biological limit values
			pp	m	mg/m³	
Ethanol	64-	17-5	100	0/-	1900/-	No information available
Substance: -						
EC No:	-		CAS	S No:	-	
DNEL	DNEL					
			Industr	ial		
Route of exposure:	Acute	Acute		Chronic		Chronic
Route of exposure.	effect local	ocal effect syst		stemic effect local		effect systemic
Oral	-	-		-		-
Inhalation	1900 mg/m³ (ethanol)	-		-		380 mg/m³ (ethanol)
Dermal	-	-		-		343 mg/kg (ethanol)
Critical physical parameters: solubility, flammability, corrosivity:						
			Consun	ner		
Route of exposure:	Acute	Acu	Acute		Chronic	Chronic
Route of exposure:	effect local	effect sy	stemic	е	ffect local	effect systemic
Oral	-	-		-		87 mg/kg bw/day (ethanol)



Page 6 of 17

Trade n	ame:			OI	RCEIN REAGEN	Т		<u> </u>	
Product	code:	ORCR-OT-X**		Date of o	compilation:	14	Nov 2022	Version:	5
	·	1 2		i	Ī	•	I		1
Inhalatio	n	950 mg/m³ (ethanol)	-		-		114 mg/m ³	(ethanol)	
Dermal		-	-		-		206 mg/kg	(ethanol)	
PNEC				<u> </u>					
Environm	Environmental protection target			PNEC					
Fresh wa	ter			0.96 mg/l (ethanol)				
Freshwat	ter sediment	:S		3.6 mg/kg	(ethanol)				
Marine w	vater			0.79 mg/l (ethanol)				
Marine s	ediments			2.9 mg/kg	(ethanol)				
Food cha	ain			380-720 m	g/kg (ethanol)				
Microorg	ganisms in se	ewage treatment		580 mg/l (e	ethanol)				
Soil (agri	cultural)			0.63 mg/kg (ethanol)					
Air			no information available						
8.2.	Exposure controls								
8.2.1.	Appropria	te engineering con	trols						
	measures	e/mixture related to prevent exposurentified uses:	e	Do not eat, drink or smoke in the workspace. Use personal protective equipment.					
	Structural exposure:	measures to prever	nt	No information available					
	Organisati prevent ex	ional measures to oposure:		Organization of work in order to reduce other worker's influence during work process.			nce		
	Technical exposure:	measures to prever	nt	See Section 7.2					
8.2.2.	Personal p	protection equipme	nt						
8.2.2.1.	Eye and fa	ce protection:	of co	ncentration	et stick to face (EN in air; protective of levels of concenti	gas mas	sk that covers		
8.2.2.2.	Skin prote	ection							
	Hand prot	ection:		tective gloves must be according to the EU Directive 2016/425/EEC d standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm			/EEC		
				Break through time: >480 min					



Page 7 of 17

Trade name:	ORCEIN REAGENT				
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.			
8.2.2.3.	Respiratory protection:	a filter for organic v	e mask (EN 136) or half mask (EN 140) equipped with c vapors, type "A" (boiling point >65°C) acording to when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No information ava	ilable		
8.2.3.	Environmental exposure cont	rols			
	Substance/mixture related me exposure:	easures to prevent	See Section 6		
	Structural measures to prever	nt exposure:	Use modern equipment.		
	Organisational measures to p	revent exposure:	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to preven	nt exposure:	See Section 6		

9.1.	Information on basic physical an	d chemical properties	
		Value	Method
	Physical state:	liquid	no information available
	Colour:	red	no information available
	Odour/odour threshold:	ethanol like/no information available	no information available
	Melting point / freezing point:	no information available	no information available
	Boiling point or initial boiling point and boiling range:	no information available	no information available
	Flammability:	no information available	no information available
	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
	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



Page 8 of 17

Ī	Trade name:		ORCEIN REAGENT			
	Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

	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	ON 10.: Stability and reactivity	
10.1.	Reactivity:	The product is stable under normal working and storage conditions.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.
10.3.	Possibility of hazardous reactions:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.
10.4.	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.

11.1. Info	rmation on hazard	classes as defined	in Regulation (EC) No 1272/2008			
Acu	te toxicity:						
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time		Results	
Oral:	-	rat	LD ₅₀	-	7.060	mg/kg (ethanol)	
Dermal:	-	rabbit	LD ₅₀	-	>20.000 mg/kg (ethan		
Inhalation:	-	rat	LC ₅₀	4 h (ethanol)	>8.000 mg/l (ethanol)		
Specific tar	get organ toxicity	- single exposure (STOT-SE):	Target orgar	1	Note	
Oral:	No informa	tion available	No	information ava	ilable	-	
Dermal:	No informa	tion available	No	o information ava	ilable	-	
Inhalation:	No informa	tion available	No information avai		ilable	_	



available

available

inhalation

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

Page 9 of 17

Trade name:		ORCEIN REAGENT							
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5				

Product code:		ORCR-OT-	-X**	Date	of con	npilation:	14 Nov 2022		Versic	on: 5
Irritation ar	nd co	rrosion								
		Exposur	e time	Species	5	Evalu	ation	Me	thod	Note
Skin corrosion/irritat	Skin No information available			No infor available	mation	No informat available	o information ailable		ation le	-
Serious eye damage/irritatio	on	No information available No information available No information available No information available			-					
Sensitization										
Skin sensitization	n:	No infor	mation a	vailable						
Respiratory sensitization:		No infor	mation a	vailable						
Symptoms re	elated	to the phy	sical, che	emical and tox	icologica	l characterist	ics			
Oral exposure:		sensation; In case of	higher love	use irritation of evels of conce of, aspiration ca cause suffoca	ntration uses cou	may cause na	ausea, ab	dominal pai	n and vo	miting.
Dermal exposur	re:	_		er short expos		•		likely. Long	-term ex	cposure
Inhalation exposure:			of large amounts of vapors in inadequately ventilated perimeter may cause sneezing, headache and nausea.							
Eye exposure:		Direct eye sensation.	contact	may cause slig	jht to m	oderate irrita	tion, lacri	mation and	burning	
Repeated do	se to	xicity (suba	cute, sub	chronic, chron	ic)					
		Dose	Ехр	osure time	Speci	es Metho	d	Evaluation	N	ote
Subacute oral		ormation ailable	No availab	information le	No inform on availab	ıntorm		No informatio available	ın -	
Subacute dermal		ormation ailable	No availab	information le	No inform on availab	intorm		No informatio available	ın -	
Subacute	No infe	ormation	No	information	No inform	ati No inform	ation	No informatio	n -	

on

available

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available



Page 10 of 17

Trade name:		ORCEIN REAGENT							
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5				

Subchronic oral	No information available	No information available	No informati on available	No information available	No informatio available	n -
Subchronic dermal	No information available	No information available	Intori		No informatio available	n -
Subchronic inhalation	No information available	No information available No information on available No information information available No information available		n -		
Chronic oral	No information available	No information available	intormation		No informatio available	n -
Chronic dermal	No information available	No information available	No informati on available	No information available	No informatio available	n -
Chronic inhalation	No information available	No information available	No informati on available	No information available	No informatio available	n -
Constitution to the		. was a stad as was a sure of	TOT DEV			
Specific targ	get organ toxicity	v - repeated exposure (S Specific effect		Target o	raan	Note
Subacute oral		No information availal		No information a	_	-
Subacute dern	nal	No information availal		No information a	_	
Subacute inha		No information availal		No information a	_	
Subchronic ora		No information availal		No information a	_	
Subchronic de		No information availal		No information a	-	
Subchronic inh		No information availal		No information a	-	
Chronic oral		No information availal		No information a		-
Chronic derma	al	No information availal	ble	No information a	vailable	_
Chronic inhala	tion	No information availal	ble	No information a	-	
			:		:	
CMR effects	(carcinogenicity	, mutagenicity, reprodu	ctive toxicit	ty)		
Carcinogen	icity:		No info	rmation available		
Mutagenicit	tv in-vitro:		No info	rmation available		



Page 11 of 17

Trade name:		ORCEIN REAGENT							
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5				

Geno	otoxicity:	No information available			
Muta	genicity <i>in-vivo</i> :	No information available			
Germ	n cell mutagenicity:	No information available			
Repr	oductive toxicity:	No information available			
Sumi	mary of evaluation of the CMR properties:	No information available			
11.2.	Information on other hazards:				
11.2.1.	Endocrine disrupting properties:				
	No known endocrine disrupting properties that affect human health.				
11.2.2.	Other information:				
	-				

SECTION 12. I	SECTION 12. Ecological information											
12.1. Toxic	ity											
Acute (short-term) toxicity	1,1000		Species	Method	Evaluation	Note						
Fish	LC ₅₀	96 hours	Fish	No information available	8.140 mg/l (ethanol)	-						
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-						
Algae/aquati c plants:	IC ₅₀	72 hours	algae	No information available	5.000 mg/l (ethanol)	-						
Other organisms	-	-	-	-	-	-						
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note						
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-						
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-						
Algae/aquati ICso 72 hours information		No information available	No information available	_								



Page 12 of 17

Trade nam	e:				ORCEIN RE	AGENT			9	
Product co	de:	ORCR-OT->	(**	Date	of compilation	on:	14 N	lov 2022	Version:	5

Other organisms	-	_		-	-		-		-	
	·	;		:	;		1		i	
12.2. Pe	rsistenc	e and degrada	ability							
Ab	iotic de	gradation								
	D	egradation ha	lf-lives	N	1ethod	Eva	aluation	l	Note	
Marine water	No in	nformation ava	ilable	No infor available		No info		n -		
Fresh water	No in	nformation ava	ilable	No infor available		No info		n -		
Air	No in	nformation ava	ilable	No infor available		No info		n -		
Soil	No in	nformation ava	ilable	No infor		No info		n -		
	1			- 1		:		·		
Biodegra	dation									
% Degrada	tion	Time (day	/s)	Ме	thod	Eva	aluation	1	Note	
-	-		-	-		-		-		
:										
12.3.	Bioacci	umulative pot	ential							
		ol-water partiti								
Value	Co	oncentration	рН	°C	Method		Evalua	ation	Note	
-	-		-	-	-	-		-		
Rioco	ncontra	tion Factor (BC	~E\							
Value	riceritra	Specie			Method		Fyalı	ıation	Note	<u> </u>
No information available	N	o information		No infor	mation availabl	A	inform		-	•
Chronic e	cotoxic	itv								
Value		Dose	Exposu	ıre time	Species	Meth	od	Evaluation	n Not	te



Page 13 of 17

		1							1 49	je 13 01 17	
Trade r	name:					ORCEIN RE	AGENT	•			
Produc	t code:	: ORCR-	OT-X**		Date o	of compilation	on:	14	Nov 2022	Version:	5
Chronic on fish	toxicity	′ LC ₅₀	1	information ilable		No information available	No information available		No information available	-	
Chronic on crust (Daphni	tacea	i i i i i i i i i i i i i i i i i i i				No information available	No informa availab		No information available	-	
12.4.	Mohil	ity in soil									
12.1.	-		d distributi	on in enviro	nmen	tal compartm	ents:				
		formation ava				car comparen					
		ce tension:									
		Value		°C		ncentration	Met	:hod		Note	
	No informat available					No information vailable No information available					
Adso Transpo	-	/ desorption A/D coeffice Henry's cor		log Kov		Evaporatio			Method	Note	<u> </u>
Soil-Wa	tor :	/ailable	Officiation	available	ation	available	CIOII	availa		-	
Water-A	Air No	o inf vailable	ormation	No informa available	ation	No informa available	tion	tion No information available		-	
Soil-Air	N ₀ av	o inf ⁄ailable	ormation	No informa available	ation	No informa	tion	No in availa	formation able	-	
12.5.		ts of PBT and									
	Based	on available	data, the p	product does	s not o	contain any P	B⊺ or vP	vB sub	stances.		
12.6.	Endoc	crine disruptir	ng propert	ies							
	Based	on available	data, does	not contain	endo	crine disrupt	ors.				
12.7.		adverse effec									
	No ad	lverse effects	are expec	ted.							
											
SECTIO	N 13. D	isposal cons	ideration	5							



Page 14 of 17

Trade name:		Т			
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

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 designation	ons according to Low:			
	Packaging that contains resid	ual hazardous substances or is contaminated with hazardous substances			
13.1.3.	Waste treatment – relevant in	formation:			
	No information available				
13.1.4.	Sewage disposal – relevant in	formation:			
	Waste must not be disposed	of into the sewage system.			
13.1.5.	Other disposal recommendati	ions:			
	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 provisio	ns:			
	Disposal must be made accor	ding to official regulations.			
SECTIO	N 14. Transport information				
Trai	nsporting/shipment by road (AD	PR)			
UN num	ber	1170			
UN prop	er shipping name:	Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing	group:	II			
Environmental hazards:		No information available			
Special precautions for user:		-			
Transporting/shipment by rail (RID)					
UN number:		1170			
UN proper shipping name:		Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing	group:	ll en			
Environr	nental hazards:	No information available			



Page 15 of 17

Trade name:		ORCEIN REAGEN	Т		
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

Special precautions for user:	-				
Transporting/shipment by inland waterways (ADN)					
UN number:	1170				
UN proper shipping name:	Ethanol solution				
Transport hazard class(es):	3				
Packing group:	II				
Environmental hazards:	No information available				
Special precautions for user:	-				
Transporting/shipment by sea (IMDG					
UN number:	1170				
UN proper shipping name:	Ethanol solution				
Transport hazard class(es):	3				
Packing group:	II				
Environmental hazards:	No information available				
Special precautions for user:	-				
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-				
Transporting/shipment by air (ICAO-	TI/IATA-DGR)				
UN number:	1170				
UN proper shipping name:	Ethanol solution				
Transport hazard class(es):	3				
Packing group:	II				
Environmental hazards:	No information available				
Special precautions for user:	-				
Further - information:					

SECTIO	SECTION 15. Regulatory information					
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorisation and/or restrictions on use					
	Authorisations: -					
	Restrictions: -					



Page 16 of 17

Trade name:		ORCEIN REAGEN	т		
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

15.2.	Chemical safety assess None	ment
15.2	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and or 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
	Information according guideline)	1999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	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 an Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC an 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 Apr 2004 on the limitation of emissions of volatile organic compounds due to the us of organic solvents in certain paints and varnishes and vehicle refinishing product and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health an 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 December 2008 on classification, labelling and packaging of substances an mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, an amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);

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



SAFETY DATA SHEET

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

Page 17 of 17

Trade name:		ORCEIN REAGEN	т		
Product code:	ORCR-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

16.3.	Key literature reference	es and source of data: -		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classific	cation	Classification procedure		
_		-		
16.5.	Relevant H statements	(number and full text)		
	H: 225	Highly flammable liquid and vapor.		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packaging of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to Chemical safety assessment

-



Page 1 of 17

Trading name:		OXALIC ACID, 2% SOLUTION			
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

SECTI	ION 1: Identification of	the substance	e/mixture	e and of the company/undertaking	
1.1	Product identifier				
	Trading name:	OXALIC AC	ID, 2% SO	LUTION	
	Chemical name:	-	-		
	Catalogue number:	OKS2-OT-X	OKS2-OT-X**		
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		Only the	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 p	person:	msds@biognost.hr		
	National contact:	nal contact: -		-	
1.4	Emergency telephone	Emergency telephone number			
	National Protection a	National Protection and Rescue Direction		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 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	ıll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16			
2.2	Label elements					
	Product identification:	OXALIC ACID, 2	% SOLUTION			
	Identification number: -					
	Authorization number: -					
	Hazard pictograms:	Hazard pictograms: -				



Page 2 of 17

Trading name:		OXALIC ACID, 2% SOLUTION						
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3			

	Signal word:	-				
	Hazard statements:	-				
	Precautionary statements:	-				
	Supplemetal hazard information (EU):	-				
2.3	Other hazards					
	Endocrine Disrupting Proper	ties:				
	No known endocrine disrupting properties					
	Results of PBT and vPvB assessment : According to the results of its assessment, this substitute of 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	ON 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, 2% SOLUTION						
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3		

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

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

SECTIO	ION 6. Accidental release measures					
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 members are all those members and all those members are all those members and all those members are all those members and all those members are al					
	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 17

Trading name:	OXALIC ACID, 2% SOLUTION						
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3		

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:	Keep away tightly clos	r from food and drink. Keep the containers sed.		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no dr that directly leads into sewage system. Secure proper ventilation.			



Trading name:

SAFETY DATA SHEET

OXALIC ACID, 2% SOLUTION

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

Page 5 of 17

Prod	Product code: OKS2)T-X**	Г	ate of c	ompila	ation:	21 D	ec 2022	022 Version:	3
	Further in	formation	on storag	e conditior	าร:	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
7.3	Specific er	nd use(s)									
	Recomme	ndations:				-					
	Industrial	sector spe	cific solut	ions:		_					
SECTI	ION 8. Expos	ure contr	ols/perso	nal protec	tion						
8.1	Control pa	arameters			1						
	Substance			CAS No		Occupational exposure values/short term values			Biological limit values		s
					рр	ppm		mg/m³			
-				-				-			
Subst	ance name:	-					T				
EC No	D:	-	CAS No	lo: -							
DNEL	•										
					Indus	strial					
Route	e of	Acı		Acu	te		Chron	ic		Chronic	
expos	sure:	effect	local	effect sys	stemic		effect lo	cal		effect systemic	
Oral		-		-		-			-		
Inhalation -			-		-		-				
Derm		-		-		-			-		
Critica	al physical pa	rameters: s	solubility,	flammabili			-				
					Consi	umer					
Route of exposure: e			cute ct local	Acu effect sy		Chronic effect local			Chronic effect systemic		

Dermal **PNEC**

Inhalation

Oral

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

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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, 2% S	OLUTION		
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

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 measur 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 exp	osure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment	ment		
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 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 imperr	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:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GV		
8.2.2.4.	Thermal hazards:	No info	ormation available	
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Se	ction 6	



Page 7 of 17

Trading name:		OXALIC ACID, 2% S	SOLUTION		
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

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

Colour: Colour/codour threshold: Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: No information available	.1	Information on basic physical and o	chemical properties		
Colour: Colourless No information available Odour/odour threshold: No information available Melting point / freezing point: No information available No information available Boiling point or initial boiling point and boiling range: Flammability: No information available Lower and upper explosion limit: No information available			Value	Method	
Odour/odour threshold: Melting point / freezing point: No information available No information available		Physical state:	liquid	No information available	
Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: No information available Lower and upper explosion limit: No information available No information available Lower and upper explosion limit: No information available		Colour:	colourless	No information available	
Boiling point or initial boiling point and boiling range: Flammability: No information available Lower and upper explosion limit: No information available Flash point: No information available		Odour/odour threshold:	no odor/no information available	No information available	
point and boiling range: Flammability: No information available Lower and upper explosion limit: No information available Flash point: No information available No information available Flash point: No information available No information available Auto-ignition temperature: No information available Decomposition temperature: No information available No information available Ph: No information available		Melting point / freezing point:	No information available	No information available	
Lower and upper explosion limit: No information available Flash point: No information available Auto-ignition temperature: No information available Decomposition temperature: No information available PH: No information available No information available No information available No information available Kinematic viscosity: No information available No information available Solubility: No information available Partition coefficient n- octanol/water (log value): Vapour pressure: No information available Density and/or relative density: No information available		3.	No information available	No information available	
Flash point: No information available Auto-ignition temperature: No information available Decomposition temperature: No information available PH: No information available No information available No information available Kinematic viscosity: No information available No information available No information available No information available Partition coefficient n- octanol/water (log value): No information available		Flammability:	No information available	No information available	
Auto-ignition temperature: Decomposition temperature: No information available PH: No information available		Lower and upper explosion limit:	No information available	No information available	
Decomposition temperature: Decomposition temperature: Decomposition temperature: No information available Partition coefficient n- octanol/water (log value): Vapour pressure: No information available No information available Density and/or relative density: No information available		Flash point:	No information available	No information available	
pH: No information available No information available Kinematic viscosity: No information available Solubility: No information available Partition coefficient n- octanol/water (log value): Vapour pressure: No information available Density and/or relative density: No information available Relative vapour density: No information available		Auto-ignition temperature:	No information available	No information available	
Kinematic viscosity: No information available Solubility: No information available Partition coefficient n- octanol/water (log value): Vapour pressure: No information available		Decomposition temperature:	No information available	No information available	
Solubility: Partition coefficient n- octanol/water (log value): Vapour pressure: No information available		рН:	No information available	No information available	
Partition coefficient n- octanol/water (log value): Vapour pressure: No information available No information available No information available No information available Relative vapour density: No information available No information available No information available No information available		Kinematic viscosity:	No information available	No information available	
octanol/water (log value): Vapour pressure: No information available Relative vapour density: No information available No information available No information available		Solubility:	No information available	No information available	
Density and/or relative density: No information available Relative vapour density: No information available No information available			No information available	No information available	
Relative vapour density: 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	
Particle characteristics: No information available No information available		Relative vapour density:	No information available	No information available	
		Particle characteristics:	No information available	No information available	

SEC	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 (room temperature).			



Page 8 of 17

Trading name:		OXALIC ACID, 2%	SOLUTION		
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

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 Informa	ation on hazard classes	as defined in	n Regul	ation (EC) No 1272/20	800		
Acute t	oxicity:						
Route of exposure:	Method	Species	Effe	ctive Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure	time	Results
Oral:	No information available	-	No i	nformation available	-		-
Dermal:	ermal: No information available		No i	nformation available	_		-
Inhalation:	halation: No information available		No i	nformation available	-		-
Specific	target organ toxicity -	- single expo	sure (S1	TOT SE):			
: 7	Specific	effects		Target orgar	1		Note
Oral:	No information available		No information available		able	-	
Dermal:	No information av	ailable	No information available		-		
Inhalation:	No information av	vailable	No information available -			_	
Aspirat	ion hazard:	No	o inform	nation available.			
levitatia	n and correction						
imialio	n and corrosion Exposure t	ime	Specie	es Evaluation	Method		Note
Skin corrosion/irritati	_	_		-	-	–	
Serious eye damage/irritatio	n -	-		-	-	-	
Sensitiz	ration						
Skin sensitizatio		mation availa	hle				
Respiratory sens		mation availa					



Page 9 of 17

Trading name:		OXALIC ACID, 2% S	OLUTION		
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

Oral exposure:		No informati	on available.						
Dermal exposure	: :	No informati	on available.						
Inhalation expos	ure:	No informati	ation available.						
Eye exposure:		No informati	on available.						
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)					
		Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	-		
Subacute dermal	No availa	information able	No information available	No information available	No information available	No information available	-		
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No information available	-		
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available	-		
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-		
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-		
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-		
Chronic dermal No in availab		information able	No information available	No information available	No information available	No information available	-		
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-		
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):	·····			
			Specific effec	ets	Target o		Note		
Subacute oral		No informa	tion available		No information	n available -			
Subacute dermal		No informa	tion available		No information	n available -			



Page 10 of 17

Trading name:		OXALIC ACID, 2% SOLUTION						
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3			

Subacute inha	alation	No information available			No information available	-		
Subchronic or	ral	No information available	ļ		No information available	-		
Subchronic de	ermal	No information available			No information available	-		
Subchronic in	ochronic inhalation No information available				No information available	-		
Chronic oral		No information available			No information available	-		
Chronic derm	al	No information available			No information available	-		
Chronic inhala	Chronic inhalation No information available				No information available	-		
CMR	effects (c	arcinogenicity; mutagenici	ty; re	eproductive	toxicity)			
Carci	inogenicit	y:	Bas	sed on avail	able data, the classification	criteria are not met.		
Muta	Mutagenicity in vitro:			sed on avail	able data, the classification	criteria are not met.		
Geno	Genotoxicity:			Based on available data, the classification criteria are not met.				
Muta	Mutagenicity in vivo:			sed on avail	able data, the classification	criteria are not met.		
Gern	Germ cell mutagenicity:			sed on avail	able data, the classification	criteria are not met.		
Repr	oductive t	oxicity:	Bas	sed on avail	able data, the classification	criteria are not met.		
	mary of erties:	evaluation of the C	CMR Based on available data, the classification criteria are not met.					
11.2 Infor	mation or	other hazards:						
11.2.1. Endo	crine disr	upting properties:						
comp disru Artic regu	e substance/mixture does not contain imponents considered to have endocrine trupting properties according to REACH ticle 57(f) or Commission Delegated gulation (EU) 2017/2100 or Commission gulation (EU) 2018/605 at levels of 0.1% or there.							
11.2.2. Othe	er informat	tion:						
_								

SECTION 12. Ecologic	SECTION 12. Ecological information									
12.1 Toxicity										
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-				



Page 11 of 17

Trading name:		OXALIC ACID, 2% SOLUTION						
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3			

Crustacea: EC ₅₀ 48 hours		EC ₅₀	48 hours	No information available	No information available	No inforr availa	mation Ible	-
Algae/aquatic μ	olants	IC ₅₀	4 days	No information available	No information available	No inforr availa	nation ble	-
Other organism	ıs	-	-	_	-	-		-
Chronic (long-t toxicity	erm)	Dose	Exposur time	e Species	Method	Eva	aluation	Note
Fish		LC ₅₀	96 hours	No information available	No information available	No inforr availa	mation Ible	-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inforr availa	nation Ible	-
Algae/aquatic plants		IC ₅₀	72 hours	No information available	No information available	No inforr availa	mation Ible	-
Other organism	ıs	-	-	-	-	-		-
12.2 Persist	ence a	nd degradab	ility					
Abioti	degra	dation						
	De	gradation ha	alf-lives	Method	Evaluatio	on		Note
Marine water	No ir	nformation a	vailable	No information available	No information	No information available		
	No ir	nformation a	vailable	No information available	No information	on	-	
Fresh water	No information available			No information available				
Fresh water Air	No ir	nformation a	vailable	No information available)n	-	
		nformation a					-	
Air		nformation a		available No information	available No information		-	
Air	No ir	nformation a	vailable	available No information	available No information	on	-	Note



Page 12 of 17

Trading name:	OXALIC ACID, 2% SOLUTION						
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3		

12.3	Bioaccumu	lative p	otential									
	Octanol-wa	ater par	tition coeffi	cient (log Kow)						
Valu	e Cor	centrat	ion p	Н	°C	Ме	ethod		Evalua	ation		Note
-	-		_	-	-	-			_		-	
	Bioconcent	tration f	factor (BCF)									
V	alue		Species		Ŋ	Method			Evaluation	on		Note
	rmation	No	inform	ation	No info		n		informati	on	_	
availabl	e	availab	ole		availab	le		avai	ilable		_	
	Chronic ec	otoxicit	У					× × × × × × × × × × × × × × × × × × ×				
	Value Dose		Exposure time		Spe	ecies	Μ	lethod	Evalu	uation	Note	
Chronic	toxicity on	fish	LC ₅₀	No infori	mation	No inforr	nation	No info	rmation	No inform	nation	-
	, , , , , , , , , , , , , , , , , , ,		- 30	availa		availa		1	ilable	availak		
Chronic	toxicity on			No		No		No		No		
	ea (<i>Daphnia</i>))	EC ₅₀		mation		nation		rmation	inform		-
	· · · · · · · · · · · · · · · · · · ·			availa	abie	availa	ые	avai	ilable	availab	oie	
12.4	Mabilityia	anil .										
12.4	Mobility in		ما مانمه شامینه	in .	n, iran n	ontol o	0 120 12 0 14 t		<u> </u>			
	No informa		ed distribution) III III E	TITIOTIT	iciildi C	ompart	ment	3.			
	Surface ter		anabie									
	Value	131011.	°C	· ·	oncentra	tion		Ma	thod			Note
	No	No										INOTE
	information available	n info	ormation ailable		o information No info vailable availab		oformation -		-			
	Adsorption) / deso	rntion									
	Ausorption	i / ues0	ηριιοιί									



Page 13 of 17

Trading name:		OXALIC ACID, 2% SOLUTION						
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3			

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	-
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 R	esults of PBT and vPvB asses	ssment			
a	he substance/mixture does of ccording to REACH Article 5 egulation (EU) 2018/605 at l	7(f) or Commission	n Delegated regulation		
12.6. Eı	ndocrine disrupting propert	ies			
a	he substance/mixture does of ccording to REACH Article 5 egulation (EU) 2018/605 at l	7(f) or Commissio	n Delegated regulation		
12.7 O	ther adverse effects				
N	lo further relevant information	on available.			
SECTION	13. Disposal consideration	s			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	l·			
	Submit for disposal to the I Protection.		rized by the Ministry of	Environmental	and Nature
13.1.2.	Waste codes/waste designa	ations according to	Law:		
	15 01 10*: Packaging that c substances	ontains residual h	azardous substances or	is contaminated	d with hazardous
13.1.3.	Waste treatment – relevant	information:			
	No information available				



Page 14 of 17

Trading name:		OXALIC ACID, 2% SOLUTION						
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3			

13.1.4.	Sewage disposal – releva	nt information:					
	Waste must not be dispo	sed of into the sewage system.					
13.1.5.	Other disposal recomme	ndations:					
	authorized by the ministr	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 pro	visions:					
	Disposal must be made a	according to official regulations.					
SECTIO	N 14. Transport information	on					
	Transporting/shipment by	road (ADR)					
UN num	nber:	Not subject to transport regulations					
UN proper shipping name:		-					
Transport hazard class(es):		-					
Packing group:		-					
Environr	mentally hazardous:	-					
Special	precautions for user:	-					
	Transporting/shipment by	rail (RID)					
UN num	nber:	Not subject to transport regulations					
UN prop	per shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environ	mentally hazardous:	-					
Special	precautions for user:	-					
	Inland waterway transport	(ADN)					
UN num	nber:	Not subject to transport regulations					
UN prop	per shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environ	mentally hazardous:	-					
Special	precautions for user:	-					
	Transporting/shipment by	sea (IMDG)					
UN num	nber:	Not subject to transport regulations					
UN prop	per shipping name:	-					



Page 15 of 17

Trading name:		OXALIC ACID, 2% SOLUTION						
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3			

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 informa	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:		OLUTION			
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	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:	-		
16.4.	Classification and procedure u 1272/2008 (CLP)	used 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.		

ANNEX: Exposure scenario resulting to chemical safety assessment



SAFETY DATA SHEET

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

Page 17 of 17

Trading name:		SOLUTION			
Product code:	OKS2-OT-X**	Date of compilation:	21 Dec 2022	Version:	3



Page 1 of 16

Trading name:	POTASSIUM PERMANGANATE, 1% SOLUTION				
Product code:	KP1-OT-X**	Date of compilation: 21 D	ec 2022	Version: 4	

SECTI	ON 1: Identification of	the substa	ance/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	POTASS	SIUM PERMANO	SANATE, 1% SOLUTION	
	Chemical name:	-			
	Catalogue number:	KP1-OT	-X**		
1.2.	Relevant identified us	Relevant identified uses of the substance or mixture and uses advised against			
	Uses:		For use with	special staining kits.	
	Uses advised against:		Only the ider	ntified uses are advised.	
	Reason why uses advi	sed	The product is intended for use only as an <i>in vitro</i> diagnostic medicine, registered at the Agency for Medicinal Products and Medicines and there is no reason to use it for other purposes		
1.3.	Details of the supplier	r of the saf	ety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska	Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997 +385 1 2404039		
	Fax no.:				
	e-mail of competent	oerson:	msds@biogn	<u>ost.hr</u>	
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection a	nd Rescue	Directorate:	112	
	Medical information:	Medical information:		+385 1 2348 342	
	Other information:			-	

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



Page 2 of 16

Trading name:	POTASSIUM PERMANGANATE, 1% SOLUTION				
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

	Signal word:	-
	Hazard statements:	H412 Harmful to aquatic life with long lasting effects.
	Precautionary statements:	P273 Avoid release to the environment P501 Dispose of contents/container in accordance with local regulations.
	Further information:	-
2.3.	Other hazards	
	Endocrine Disrupting Proper No known endocrine disruptin Results of PBT and vPvB asse 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)			
7722-64-7/ 231-760-3/ 025-002-00-9	-	1 %	potassium permanganate	Oxid. Solid 2; H272 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410			

SECTI	ON 4. First aid measures				
4.1.	Description of first aid 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 ef	fects, both acute and delayed		
	Following inhalation:	No	information available		
	Following skin contact:	No	information available		
	Following eye contact:	No	information available		
	Following ingestion:	No	No information available		
4.3.	Indication of any immediat	ndication of any immediate medical attention and special treatment needed			
	-				

SECTION 5 Firefighting measures



Page 3 of 16

Trading name:	POTASSIUM PERMANGANATE, 1% SOLUTION					
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

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

SECTIO	ON 6. Accidental release meas	ures			
6.1.	Personal precautions, protect	ive equipment and emergency procedures			
6.1.1.	For non-emergency personne	el			
	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, 1% SOLUTION						
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

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

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



					,	9	(=0,1101=0	_0,010	Page 5 of 16
Trading na	ame:			POTA	SSIUM	PERMA	NGANATE, 1	% SOLUTION	NC
Product co	ode:	KP1-OT	-X**		Date of compilation: 21 Dec 2022 Version:			Version: 4	
							•		
Potassium _I	permang	anate	7722-6	54-7		-	5	No inform	ation 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 phy	sical par	ameters: s	solubility, fla	mmab	ility, cor	rosivity:	-		
					Co	nsumer			
Route of		<i>A</i>	Acute	Acut		e	Chro	nic	Chronic
exposure:		effe	ect local	е	ffect sys	temic	effect	local	effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
PNEC									
Environmer	ntal prot	ection tar	get			PNEC			
Fresh water	•					No inform	mation availab	le	
Freshwater	sedimer	its				No inform	mation availab	le	
Marine wat	er					No information available			
Marine sed	iments					No information available			
Food chain						No information available			
Microorgan	isms in	sewage tr	eatment			No information available			
Soil (agricu	ltural)					No information available			
Air				No information available					
8.2.	Exposu	re contro	ls						
8.2.1.	Approp	oriate eng	ineering co	ntrols					
	measui		ire related vent exposu l uses:	re		•	n well ventilate ot eat, drink or		e personal protective e workspace.
	Structu exposu		ires to preve	ent	No info	rmation av	vailable		



Page 6 of 16

Trading name:	POTASSIUM PERMANGANATE, 1% SOLUTION					
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

	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					
			tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374.			
	Hand protection:		Glove material: nitrile rubber			
			Glove thickness: ≥0.50 mm			
			Break through time: >480 min			
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with I sleeves (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 expe	-	See Section 6			
	Structural measures to prevent exposure:		Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pr exposure:	event	See Section 6			

SECTI	SECTION 9. Physical and chemical properties						
9.1.	Information on basic physical and che	emical properties					
	Value Method						
	Physical state:	liquid	No information available				
	Colour:	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, 1% SOLUTION					
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

	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
9.2.	Other information		
	-		

SECTIO	N 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	ological information				
11.1. Information	n on toxicological effe	cts			
Acute toxic	ity:				
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	_	LD ₅₀	-	-



Page 8 of 16

Trading name:		F	POTASS	IUM F	ERMAN	GAN	ATE, 19	% SOLUTION	DN C		
Product code:	KP1-OT-	-X**	Da	te of	compilati	on:	21 De	c 2022	Vers	sion:	4
Inhalation exposure:		ormation ilable	-			LC ₅₀		_			-
	!				1						
Specific	target organ	toxicity – sii	ngle expo	sure (STOT SE):						
		Specific e	effects			Targe	et orgar	1		No	te
Oral exposure:	No i	nformation a	available		No inforn	nation	availab	le	-		
1		nformation a	ation available		No information available						
Inhalation expos	ure: No i	nformation a	ion available No information available						-		
<u>:</u>											
Respirat	ory irritation		N	o infor	mation av	ailabl	e				
Irritation	n and corrosi								**************************************		
	Expos	ure time	Speci	es	Eval	uatio	n	Method		No	te
Skin irritation:	-		-		-			-	-		
Eye irritation:	-		-		-			-	-		
Ci+i-	-+i										
Sensitize Dermal exposure		mation availa	abla								
Dermal exposure Inhalation	e. INO IIIIOI	mation avail	abie								
exposure:	No infor	mation availa	able								
-	1										
Sympto	ms related to	the physica	l, chemica	al and	toxicologi	cal ch	aracteri	stics			
Oral exposure:	No inforr	mation availa	ble								
Dermal exposure	: No inforr	nation availa	ble								
Inhalation exposure:	No inforr	mation availa	ble								
Eye exposure:	No inforr	nation availa	ble								
Repeate	ed dose toxici	ty (subacute	, subchro	nic, ch	ronic)						
	Dose	Expo time	osure e	Spec	ies	Metl	nod	Evaluation	1	Note	e
Subacute oral	No inform available	into	rmation lable	No infor availa	mation able		matio ailable	No inform available	nation	-	
Subacute dermal	No inform available	into	rmation lable	No infor availa	mation able		matio ailable	No inform available	ation	_	



Subacute

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

No

Page 9 of 16

No information

Trading name:	РОТ	ASSIUM PERMANGAN	ATE, 1% SOLUTIO	N	
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

No

No

No information

Mutagenicity in-vivo:

inhalation available		information available		rmation lable	n informatio ava		e	–	
Subchronic oral	No availa	information able	No information available		rmation lable	No informatio n available	No infor		-
Subchronic No information		No information available			No informatio n available	No infor		-	
Subchronic inhalation	No availa	information able	No information available		rmation lable	No informatio n available	No infor		-
Chronic oral No information available		No information available	No ation inform		No informatio n available			-	
Chronic dermal	Chronic dermal No information in		No information available		rmation lable	No informatio n available	No information		-
Chronic No informatinhalation available			No information available		rmation lable	No informatio n available	No information available		_
c .c.					(STOT	D.E.)			
Specific	target	T	y – repeated e ecific effects	xposu	ire (\$101	KE): Target organ			Note
Subacute oral		•	ation available			No information available			Note
Subacute derma	al		ation available			information available - information available -			
Subacute inhala			ntion available			information available -			
Subchronic oral		No informa	ntion available		No infor	information available -			
Subchronic derr	mal	No informa	ntion available		No infor	mation availab	ole	_	
Subchronic inha	lation	No informa	ntion available		No infor	mation availab	ole	-	
Chronic oral		No informa	ation available		No infor	mation availab	ole	_	
Chronic dermal		No informa	ntion available		No infor	mation availab	ole	-	
Chronic inhalation	on	No informa	ation available		No infor	mation availab	ole	_	
CMR ef	ffects (c	arcinogenicit	y, mutagenicity	y, rep	roductive	toxicity)			
	genicit				on availab				
	enicity <i>i</i>				on availab				
	······		No info	rmati	on availab	le			
	Genotoxicity:								

No information available



Page 10 of 16

Trading name:	POTA	ASSIUM PERMANGAN	ATE, 1% SOLUTIO	N
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Germ cell mutagenicity: No	o information available						
	Reproductive toxicity: No	o information available						
	Summary of evaluation of the CMR p	properties: -						
11.2	Information on other hazards:							
11.2.1.	Endocrine disrupting properties:							
	The substance/mixture does not cont components considered to hendocrine disrupting proper according to REACH Article 57(f) Commission Delegated regulation (2017/2100 or Commission Regulat (EU) 2018/605 at levels of 0.1% higher.	ave ties or EU)						
11.2.2.	Other information:							
	-							

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



Page 11 of 16

Trading na	me:	POTASSIUM PERMANGANATE, 1% SOLUTION										
Product co	de:	KP1-OT-X**			Date of compilation:		21 Dec	2022	Version:	4		
Algae/aquat plants	ic	IC ₅₀	72 hou	urs	available		rmation lable	-	-			
Other organ	isms	-	-		-	-		-	-			
		ce and degrada	bility									
AUI	Abiotic degradation Degradation half-lives			Method			Evaluation	•	Note			
Marine water		information av			nformation available No inform				-			
Fresh water	No	information av	ailable	No	information availa	No inform	ation ava	ilable	_			
Air		information av			information availa		No inform			_		
Soil No information available		No	information availa	able	No inform	ation ava	ilable	_				
Bio	degrad	dation				-						
% Degradation Time (days)			Method		Evaluatio	n	Not	е				
				No ir availa	formation able				No information available			
		ulative potentia			И)							
		coefficient: n-oc		ater (lo			F I	4:	. N.			
Value -	No	ncentration information	pH -		No information	on	No inform	nation No		ote		
	avail	able			available		available					
	:				i	i	:					
	concer	ntration factor (
Value	•	Specie			Method		Evaluati		No			
No informat available	ion	No infor available	mation	No ii avail	nformation able		o informatio railable	on 	No informa available	ation		



Page 12 of 16

Trading name:	PO	TASSIUM PERMANGAN	ATE, 1% SOLUTIO	N	
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

mading	j Hallie.			FC	/ I ASSICIV	IFER	ZIVIMIA	JANAIL, I	6 SOLUTIO	/I V			
Produc	t code:	KP1-	-OT-X**		Date o	of co	mpilati	on: 21 De	c 2022	Version:	4		
	Value		Dose	Exposure time		Spe	ecies	Method	Evalua	ntion	Note		
Chronic	Chronic toxicity on fish LC ₅₀		LC ₅₀	information in		No nforr availa	mation Ible	No information available	No inforn available	nation -			
Chronic toxicity on EC ₅₀		EC ₅₀	information ir		No nforr availa	mation Ible	No information available	No inforn available	nation -				
12.4.	Mobility	in soil											
	Known or predicted distribution in environmental compartments:												
	No infor	······											
	Surface tension:												
	Value	2	°C		Concentrat	ion		Method	Note				
	No informat available	ion	lo informati vailable	ion No information available			No information available			_			
	Adsorpti	on / des	orption										
Transpo	ort	A/D coe Henry's	efficient constant	le	og Kow		Evapora	ation rate	Method	1	Note		
-		information	No information available			o inform ailable	nation	n No information available					
Water-a	nir No ava	ilable	information	No i avail	nformation able	No inform		No information available		intormation		n -	
				ļ									

12.5. Results of PBT and vPvB assessment

information

No information

available

No

available

Soil-air

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.

available

No information

No

information

available

12.6. Endocrine disrupting properties



Page 13 of 16

Trading name:	POTASSIUM PERMANGANATE, 1% SOLUTION					
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

	according to REACH Article	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 consideration	ns						
13.1.	Waste treatment methods							
13.1.1.	Product/Packaging dispos	al:						
	Submit for disposal to the Protection.	legal person authorized by the Ministry of Environmental and Nature						
13.1.2.	Waste codes/waste design	nations according to Law:						
	No information available							
	1							
13.1.3.	Waste treatment – relevan	t information:						
	No information available							
13.1.4.	Sewage disposal – relevan							
	Waste must not be dispose	ed of into the sewage system.						
13.1.5.	Other disposal recommend	dations:						
	authorized by the ministry	duct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. Do not dispose of in places where						
13.1.6.	Relevant Community provi	isions:						
	-							
SECTIO	N 14. Transport information							
UN num	Transporting/shipment by ro	3082						
		Environmentally hazardous substance, liquid, n.o.s. (potassium						
UN pro	per shipping name:	permanganate)						
Transpo	ort hazard class(es):	9						



SAFETY DATA SHEET

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

Page 14 of 16

Trading name:	POTASSIUM PERMANGANATE, 1% SOLUTION				
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

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, 1% SOLUTION					
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

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

SECTIO	ON 15. Regulatory informa	ation						
15.1.	Safety, health and environ	nmental regulations/legislation specific for the substance or mixture						
	EU regulations							
	Authorization and/or rest	rictions of use						
	Authorizations:	-						
	Restrictions:	-						
	Other EU regulations:	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:	-



Page 16 of 16

Trading name:	POTASSIUM PERMANGANATE, 1% SOLUTION				
Product code:	KP1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

16.2.	5.2. Abbreviations and acronyms:		route (Goods IMDG: IATA: GHS: EINECS CAS: DNEL: LC50: LD50: PBT:	Accord relatif au transport international des marchandises dangereuses par European Agreement Concerning the International Carriage of Dangerous by Road) International Maritime Code for Dangerous Goods International Air Transport Association Globally Harmonised System of Classification and Labelling of Chemicals European Inventory of Existing Commercial Chemical Substances Chemical Abstracts Service (division of the American Chemical Society) Derived No-Effect Level (UK REACH) Lethal concentration, 50 percent Lethal dose, 50 percent Persistent, Bioaccumulative and Toxic very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:		-			
16.4.	16.4. Classification and procedure used 1272/2008 (CLP)			ive the classification for mixture according to Regulation (EC)		
Classif	icatio	n	Classificati	on procedure		
_						
16.5.	Rel	evant H statements (num	r and full	text)		
		272	May intens	ay intensify fire; oxidiser.		
		302	Harmful if	swallowed.		
	H:	400	/ery toxic	to aquatic life.		
		410	•	to aquatic life with long lasting effects.		
		413	May cause	long lasting harmful effects to aquatic life.		
16.6.	Tra	ining advice:				
	_		he produc			
16.7.	6.7. Further information: We inst		nstruction	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 1 of 16

Trading name:	SULFURIC ACID, 0.3% SOLUTION				
Product code:	SK03-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, 0.3% SO	DLUTION	
	Chemical name:	-			
	Catalogue number:	SK03-O	T-X**		
1.2.	Relevant identified uses of the substance or mixture 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	s intended for use only as an <i>in vitro</i> diagnostic medical ered at the Agency for Medicinal Products and Medical here is no reason to use it for other purposes		
1.3.	Details of the supplier	of the saf	ety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection ar	d Rescue	Directorate:	112	
	Medical information:	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 Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and categor	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	ID, 0.3% SOLUTION		
	Identification number: -				
	Authorization no.:				
	Hazard pictograms: -				



Page 2 of 16

Trading name:		SULFURIC ACID, 0.3% SOLUTION			
Product code:	SK03-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

SECTION 3. Co	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
7664-93-9/ 231-639-5/ 016-020-00-8	-	0.3 %	sulfuric acid, 96%	Skin Corr. 1A; H314	

4.1.	Description of first aid measures			
	General notes:	-		
	Following inhalation:	ventilat stops, i	ne afflicted person out of the contaminated area into a welled area or out for fresh air. If breathing becomes erratic or it mmediately apply artificial respiration (other than mouth-to-and contact a physician.	
	Following skin contact:	water a	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.	
	Following eye contact:		ut with plenty of water with the eyelid held wide open using ngers. If the symptoms remain, immediately call a physician.	
	Following ingestion:	water. I	induce vomiting. Make the afflicted person drink a glass of f spontaneous vomiting occurs, wash the mouth with water, ake the person drink 100-200 ml of water and seek medical on.	
	Self-protection of the first a	der: Treat sy	mptomatically.	
4.2.	Most important symptoms	nd effects, bot	h acute and delayed	
	Following inhalation:		our findings, chemical, physical and toxicological properties of a have not been entirely tested.	
	Following skin contact:	According to our findings, chemical, physical and toxicological properties the substance have not been entirely tested.		



Page 3 of 16

Trading name:	SULFURIC ACID, 0.3% SOLUTION			
Product code:	SK03-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 ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.				
5.4.	Additional information				
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.				

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



Page 4 of 16

Trading name:	SULFURIC ACID, 0.3% SOLUTION				
Product code:	SK03-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 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

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

Page 5 of 16

Trading name:		SULFURIC ACID, 0.3% S	SOLUTION	
Product code:	SK03-OT-X**	Date of compilation: 21	1 Dec 2022	Version: 4

SECTION 8. Exposu		ols/persona	l protec	tion			
8.1. Control par	ameters	CAS I	No		•	exposure limit t term values	Biological limit values
				ı	opm	mg/m³	
-	-			-	-	No information available	
Substance name:							
EC No: -		CAS No:	-				
DNEL							
				Inc	dustrial		
Route of exposure:		Acute ect local	effe	Acute		Chronic effect local	Chronic effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
Critical physical para	meters:	solubility, fla	mmabilit	ty, cor	rosivity:	-	1
				Co	nsumer		
Route of exposure:		Acute ect local	effe	Acute		Chronic effect local	Chronic effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
PNEC							
Environmental prote	ction tar	get			PNEC		
Fresh water					No information available		
Freshwater sediments				No information available			
Marine water			No information available				
Marine sediments			No information available				
Food chain			No information available				
Microorganisms in s	ewage tr	eatment			No infor	mation available	
Soil (agricultural)					No infor	mation available	
Air					No infor	mation available	



Page 6 of 16

Trading name:		SULFURIC ACID, 0.39	% SOLUTION		
Product code:	SK03-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 expoduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to pr exposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	ment				
8.2.2.1.	Eye and face protection:	Safety plasses that stick to face (preventing splashing) (FI				
8.2.2.2.	Skin protection					
	Hand protection:		tive gloves must be according to the EU Directive 2016/425/EEC and and 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 of	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 pre exposure:	event	See Section 6			

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



Page 7 of 16

Trading name:		SULFURIC ACID, 0.39	% SOLUTION	-	
Product code:	SK03-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	ON 11. Toxicological information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
	Acute toxicity:



Page 8 of 16

Product code: SK03-OT-X** Date of compilation: 21 Dec 2022 Version: 4	Trading name:		SULFURIC ACID, 0.39	% SOLUTION		
	Product code:	SK03-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Route of exposure:	Method	Species	Effective dose LD_{50}/LC_{50} or $ATE_{mixture}$	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	_	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	-
Specific 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	-	
Inhalation exposure	e: 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	Evaluation	od	Note
Respirator Irritation a Skin irritation: Eye irritation:	y irritation: nd corrosion Exposure time	Species	Evaluation	od	Note
Respirator Irritation a Skin irritation: Eye irritation:	y irritation: nd corrosion Exposure time	Species	Evaluation	od	Note
Respirator Irritation a Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure:	y irritation: nd corrosion Exposure time on No information avai	Species ilable	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: Sensitization 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: Sensitization Dermal exposure: Inhalation exposure: Symptoms Oral exposure:	y irritation: nd corrosion Exposure time on No information avai No information avai related to the physic No information a No information a	Species ilable ilable al, chemical and vailable vailable	Evaluation	od	Note



Page 9 of 16

Trading name:	SULFURIC ACID, 0.3% SOLUTION				
Product code:	SK03-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	-



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

amended by Regulation (EU) No. 1907/2006

Page 10 of 16

Trading name:		SULFURIC ACID, 0.3	% SOLUTION		
Product code:	SK03-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

CHIOTH	c inhalation	No informa	tion available	No information available	-
	CMR effects ((carcinogenicity	, mutagenicity, re	eproductive toxicity)	
	Carcinogenic	ity:	Based on av	ailable data, the classification criteria	are not met.
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criteria	are not met.
	Genotoxicity:		Based on av	ailable data, the classification criteria	are not met.
	Mutagenicity	in-vivo:	Based on av	ailable data, the classification criteria	are not met.
	Germ cell mu	ıtagenicity:	Based on av	ailable data, the classification criteria	are not met.
	Reproductive	toxicity:	Based on av	ailable data, the classification criteria	are not met.
11.2	Information of	on other hazard	ls·		
11.2	Information of	on other hazard	ls·		
11.2.1.		srupting proper	ties:		
11.2.1.	The substance components endocrine according to Commission 2017/2100 o	e/mixture does	not contain to have properties tle 57(f) or ulation (EU) Regulation		
11.2.1.	The substance components endocrine according to Commission 2017/2100 of (EU) 2018/60	e/mixture does considered disrupting REACH Artic Delegated reg or Commission 05 at levels	not contain to have properties tle 57(f) or ulation (EU) Regulation		

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



Page 11 of 16

Trading name:		SULFURIC ACID, 0.39	% SOLUTION		
Product code:	SK03-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

12.2. Pers	sistence and degradability			
Abio	otic 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	adation			
% Degradation	Time (days)	Method	Evaluation	Note
No information available				

12.3. Bi	oaccumulative potentia	al				
Pa	artition coefficient: n-o	ctanol/wa	iter (log	Kow):		
Value	Concentration	рН	°C	Method	Evaluation	Note
-	No information available	-	-	No information available	No information available	-

Bioconcentration factor (BCF)



SAFETY DATA SHEET

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

Page 12 of 16

Trading name:		SULFURIC ACID, 0.3	% SOLUTION	
Product code:	SK03-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

,	/alue		Species	M	ethod	Evaluation		Note	•
No info	ormation lle	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 ₅₀	No information available	No information available	No information available	No info	ormation ble	-
	c toxicity o cea (<i>Daphn</i>		EC ₅₀	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

Product code: SK03-OT-X** Date of compilation: 21 Dec 2022 Version: 4	Trading name:	SULFURIC ACID, 0.3% SOLUTION			
	Product code:	SK03-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 deather 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:
13.1.3.	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	-



SAFETY DATA SHEET

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

Page 14 of 16

Trading name:	SULFURIC ACID, 0.3% SOLUTION			
Product code:	SK03-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 (ADN)			
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmentally hazardous:	-		
Special precautions for user:	-		
Transporting/shipment by sea	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:	-		



Page 15 of 16

Trading name:	SULFURIC ACID, 0.3% SOLUTION			
Product code:	SK03-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	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);	
Information according 1999/13/EC about limitation of emissions of volatile organic compound 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:	-



SAFETY DATA SHEET

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

Page 16 of 16

Trading name:		SULFURIC ACID, 0.3	% SOLUTION	
Product code:	SK03-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 (1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)	
Classification		Classification procedure	
-		-	
16.5.	Relevant H statements (numb	er 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

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