

### **ORCEIN KIT**

The kit contains:

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



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

SECTION	ON 1: Identification of	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 subst	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 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 shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2	2404039	
	e-mail of competent p	erson:	msds@b	<u>@biognost.hr</u>	
	National contact: -				
1.4	Emergency telephone	number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 2. Hazards identification					
2.1	Classification of the substar	Classification of the substance or mixture				
2.1.1	Classification according to I	Regulation (EC) No 1	1272/2008 (CLP)			
	Hazard class and ca	Hazard class and category code: Hazard statements*:				
	Flam. Liq. 2 H225					
2.1.2.	Additional information					
	-					
*For fu	ıll text of Hazard- and EU Haza	ard-statements: see	SECTION 16			
2.2	Label elements					
	Product identification:	ACID ALCOHO	L, ORCEIN			
	Identification number: -					
	Authorization number:	-				



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	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:	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.			



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	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	ON 5. Firefighting measures	
5.1	Extinguishing media	
	Suitable extinguishing media:	Extinguishing powder, alcohol-resistant foam, water, carbon-dioxide.
	Unsuitable extinguishing media:	Water with full jet.
5.2	Special hazards arising from the su	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.



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5.4	Additional information
	-

SECTIO	ON 6. Accidental release measu	res		
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 accun	nd clothing and inhaling gases, vapours and aerosols. Ensure adequate nulate at floor level in low and confined spaces. Remove all heat, ignition thines. Ignition spark arrestor must not be operated in the danger area. Use the risk of slipping.		
6.2	Environmental precautions:			
	Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance 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.	Cleaning up:	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.  During the collection, placement, disposal of the waste, wear appropriate individual protective equipment.  Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution).		
6.3.3.	Utner information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information o	n safe handling.		
	See Section 8 for information of See Section 13 for disposal info	n personal protection equipment. ormation.		

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



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	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use non-sparkling tools and equipment.	
	Measures to prevent aerosol and dust generatio	n:	Ensure adequate ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
	Other measures:		Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.	
7.2	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	away from unopened	well-ventilated place, protected from sunlight, a sources of heat and ignition, in its original, and hermetically sealed packaging, away dizing agents, food, feed and articles of ion.	
	Packaging materials:	Manufacturer's original packaging.  Keep away from food and drink. Keep the containers tightly closed.		
	Requirements for storage rooms and vessels:			
	Advices for storage equipment:	be resista	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 n	ace the unused material in the storage room not use empty containers for storing other . Do not store with incompatible materials (see )).	
7.3	Specific end use(s)			
	Recommendations:	-		
	Industrial sector specific solutions:	-		

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



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					·		i			
Substance i	name:	-								
EC No:		-	CAS No	):	-					
DNEL										
					Inc	dustrial				
Route of Acute Acute			Chronic		Chronic					
exposure:		effect	local	effec	t systemi	с	effect local	(	effect systemic	
Oral		-		-		-		-		
Inhalation		1900 mg (ethanol)	•	-		-		380 mg	y/m³ (ethanol)	
Dermal		-		-		-		343 mg	ı/kg (ethanol)	
Critical phy	sical par	ameters: s	solubility,	flamma	ability, co	rrosivity:	-			
Consumer										
Route of		Ad	cute		Acute		Chronic		Chronic	
exposure:		effec	ct local	effec	t systemi	С	effect local	(	effect systemic	
Oral		-		-		-		87 mg/	kg bw/day (etha	anol)
Inhalation		950 m (ethan	•	-		-		114 mg	y/m³ (ethanol)	
Dermal		-		-		-		206 mg	J/kg (ethanol)	
PNEC										
Environmer	ntal prot	ection tar	get			PNEC				
Fresh water	•					0.96 m	g/l (ethanol)			
Freshwater	sedimer	nts				3.6 mg	/kg (ethanol)			
Marine wat	er					0.79 m	g/l (ethanol)			
Marine sed	iments					2.9 mg/kg (ethanol)				
Food chain						380-720 mg/kg (ethanol)				
Microorgan	isms in	sewage tr	eatment			580 mg/l (ethanol)				
Soil (agricu	ltural)					0.63 mg/kg (ethanol)				
Air						no information available				
8.2	Exposu	ire contro	ls							
8.2.1.	Appro	oriate eng	ineering	control	5					
		ance/mixture related measures to		concer concer existing	e of a hazardous stration limit it is stration levels dow g scientific and te ous substance pose	the employ n to a minion chnological	ver's duty to k mum achievable means, where	eep by		



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	exposure:  Organisational measures to prevent exposure:  I		In accordance with Section 7.		
			Organization of work in order to reduce other worker's influence during work process.		
			In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Use according to general application methods and with adequate ventilation.		
			Use non-sparkling ventilation system.  Provide appropriate personal protective equipment, safety shower and eye-wash station.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Use appropriate, chemical-proof protective glasses/face shield (EN ISO 16321-1:2022, EN 166).			
8.2.2.2.	3.2.2.2. Skin protection				
	Hand protection:	Use appropriate, 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 stration of ethyl alcohol exceeds occupational exposure limits air, use a self-contained breathing apparatus. For short and if the oxygen content of the air is greater than 18 %, use ective gas mask with filter A (EN 14837/A1).		
8.2.2.4.	Thermal hazards:	No the	rmal hazards known.		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		
	Structural measures to prevent exposure:	Use modern equipment.			
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.		
	Technical measures to prevent exposure:	See Section 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		



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	Odour/odour threshold:	ethanol like/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	21 °C	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	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:					



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Route of			Doc	e LD <sub>50</sub> /LC	or				
exposure:	Method	Species	DOS	ATE <sub>mix</sub>	.50 OI	Exposure tim	e	Result	S
Oral:	-	rat (ethanol)	1	LD <sub>50</sub>		-		7.060 mg	ı/kg
Dermal:	-	rabbit (ethanc	ol)	LD <sub>50</sub>		-		>20.000 r	ng/l
Inhalation:	-	rat (ethanol)		LC <sub>50</sub>		4 h		>8.000 m	ng/l
Specific tar	get organ to	oxicity – single exp	oosure (ST	OT SE):					
		Specific effects			 Гarget orga	n		Note	
Oral:	No informa	ation available		No inforr	nation avail	able -			
Dermal:	No informa	ation available		No inforr	nation avail	able -	•		
Inhalation:	No informa	ation available		No inforr	nation avail	able -	•		
Aspiration l	hazard:		No inform	ation ava	ilable.				
·		,							
Irritation ar	nd corrosion	l							
	Exp	osure time	Specie	s F	Evaluation	Method		Note	
Skin corrosion/irritation:	-		-	-		_	_		
Serious eye damage/irritation	-		-	-		-	-		
Sensitizatio	n								
Skin sensitization:		lo information ava	ilable.						
Respiratory sensitiza	ntion: N	lo information ava	ilable.						
. ,	I								
Symptoms	related to tl	he physical, chemi	ical and to	xicologic	al character	istics			
Oral exposure:	Absorpt unconso	ion of great iousness and alco g may occur. Repe	quantities hol poisor	may ning. In ca	cause dizz se of swallo	ziness, drun wing great q	uantitie		
Dermal exposure:		After prolonged or repeated exposure symptoms may include: defatting, dryness cracking of skin.					and		
Inhalation exposure:	Inhalatio	on of great quantit	ies may ca	ıuse dizzii	ness, eupho	ria and mild i	rritatio	n of the mu	ıcou
Eye exposure:	May cau	ıse irritation and r	edness.						

Repeated dose toxicity (subacute, subchronic, chronic)



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

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



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Chronic	inhalation No information available	No	information available	-		
	CMR effects (carcinogenicity; mutagenici	r; reproductive toxic	ity)			
	Carcinogenicity:	Based on available of	data, the classification o	riteria are not met.		
	Mutagenicity in vitro:	Based on available	data, the classification o	riteria are not met.		
	Genotoxicity:	Based on available	data, the classification o	riteria are not met.		
	Mutagenicity in vivo:	Based on available o	data, the classification c	criteria are not met.		
	Germ cell mutagenicity:	Based on available data, the classification criteria are not met.				
	Reproductive toxicity:	Based on available data, the classification criteria are not met.				
	Summary of evaluation of the C properties:	IR Based on available met.	able data, the classifica	ation criteria are not		
11.2	Information on other hazards:					
11.2.1.	Endocrine disrupting properties:					
	Based on available data, does not con endocrine disruptors.	nin				
11.2.2.	Other informations:					
	-					

SECTION 12. Ecological information									
12.1 Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC <sub>50</sub>	96 hours	golden orf	No information available	8.140 mg/l /48 h (ethanol)	-			
Crustacea:	EC <sub>50</sub>	48 hours	daphnia magna	No information available	7.800 mg/l (ethanol)	-			
Algae/aquatic plants	IC <sub>50</sub>	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			



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

	Ahiotic	c degradation			
	7101011	Degradation half-lives	Method	Evaluation	Note
Marine	e water	No information available	No information available	No information available	-
Fresh water		No information available	No information available	No information available	-
Air		No information available	No information available	No information available	-
Soil		No information available	No information available	No information available	-

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

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\	Value		Species		N	∕lethod	Eν	/aluatio	on		Note	
BCF: 0.66		No available	inform	ation				No information available		-		
	Chronic e	cotoxicity										
	Value		Dose		osure ime	Species	Meth	nod	Eval	uation	Note	
Chroni	ic toxicity on	ı fish	LC <sub>50</sub>	No infor availa	mation able	No information available	No informa availab		No inforr availa	nation Ible	-	
	ic toxicity on cea ( <i>Daphnic</i>		EC <sub>50</sub>	No No information info		No information available	formation informat				-	
40.:	Mobility in	n soil										
12.4	IVIODIIILV II	H SOII										
12.4			distributi	on in e	environm	ental compa	tments:					
12.4	Known or			on in e	environm	ental compa	tments:					
12.4	Known or	predicted		on in e	environm	iental compa	tments:					
12.4	Known or	predicted			environm		tments:	od			Note	
12.4	Known or No inform Surface te	predicted nation ava ension:  No on information information information.	ilable	Co		tion	Metho		-		Note	
12.4	Known or No inform Surface te Value No informatio	predicted nation ava	°C rmation	Co	oncentra informa	tion tion No ir	Metho		-		Note	
12.4	Known or No inform Surface te Value No informatio	nation ava ension: No on infor	°C rmation lable	Co	oncentra informa	tion tion No ir	Metho				Note	
Transp	Known or No inform Surface te Value No informatic available  Adsorptio	nation ava ension: No on infor	°C rmation lable ption fficient	No ava	oncentra informa	tion tion No ir	Metho formationable	n	Method	d	Note	
Transp	Known or No inform Surface te Value No informatic available  Adsorptio	nation ava ension:  No on information avail  on / desorp  A/D coef  Henry's coef	°C rmation lable ption fficient	No ava	oncentra informa iilable og Kow	tion tion No ir availa	Methodiformation able	n	Method		Note	
	Known or No inform Surface te Value No informatic available  Adsorptio	nation ava ension:  No on information avail  on / desorp  A/D coeff  Henry's coeff  available	°C rmation lable  ption fficient onstant	No availa	oncentra informa iilable og Kow nformatio	tion tion No ir availa  Evapora on No infor available	Methodiformation able tion rate mation	No ir	Method nforma able nforma	tion -	Note -	



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12.5	Results of PBT and vPvB assessmer	nt -
12.3		ct does not contain any PBT or vPvB substances.
	20000 011 010 010 0000, 010 010 000	
12.6	For description of the control of th	
12.6.	Endocrine disrupting properties	
	Based on available data, does not o	contain endocrine disruptors.
12.7.	Other adverse effects	
	Do not let the product or its residu	es reach sewer system, waterways and soil.
SECTIO	N 13. Disposal considerations	
13.1	Waste treatment methods	
13.1.1.	Product/Packaging disposal:	
		person authorized by the Ministry of Environmental and Nature
	Protection.	
13.1.2.	Waste codes/waste designations	
	Packaging that contains residual	hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevant infor	mation:
	No information available	
13.1.4.	Sewage disposal – relevant infor	mation:
	Waste must not be disposed of i	nto the sewage system.
13.1.5.	Other disposal recommendations	S:
	Do not dispose of the product's	remains into the sewage system. Submit the remains to the collectors
		arge. Do not dispose of the packaging into the sewage system. Submit authorized by the ministry in charge. Unused product residues may be
	burnt.	
13.1.6.	Relevant Community provisions:	
	Disposal must be made accordin	g to official regulations.
	i .	-
SECTIO	N 14 TRANSPORT INFORMATION	
	Transporting/shipment by road (Al	
UN num		1170
		Ethanol solution
CIA PIO	рег эттрриту папте.	Editation Solution



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Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	11
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II .
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	



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

SECTION 16. Other information		
16.1 Indication of changes:	-	



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				1 0.90 11 01 11	
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16.2	Abbre	viations 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.	- 1	erature references and e of data:	-			
16.4.		fication and procedure 2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classifi	ication		Classification procedure			
_			-			
16.5.	Releva	ant H statements (numb	per 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.	Trainir	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	
-	



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1.1.	Product identifier					
	Trade name:	ORCEIN REAGENT				
	Chemical name:	-	-			
	Catalogue number:	ORCR-OT-X**				
1.2.	Relevant identified	l uses of the sub	stance or	r mixture ar	nd uses advised against	
	Uses:			For use w	rith Orcein kit.	
	Uses advised against:			Only the i	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 supp	olier of the safety	/ data she	eet		
	Supplier:		BioG	BioGnost Ltd.		
	Address:		Medj	Medjugorska 59, Zagreb		
	Telephone numbe	r:	+385	+385 1 2409997		
	Telefax:		+385	+385 1 2404039		
	E-mail of compete	nt person:	msds	msds@biognost.hr		
	National contact:		-			
1.4.	. Emergency telephone numbers					
	National Protectio	National Protection and Rescue Directorate		:	112	
	Medical information:			+385 1 2348 342		
	Wedical IIIOIIIIatio	/ · · ·			ļ	

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substa	nce or mixture			
2.1.1.	Classification according to	Regulation (EC) No	. 1272/2008 (CLP)		
	Hazard class and cate	egory code:		Hazard statement*:	
	Flam. Liq. 2 H225				
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Haza	ard-statements: see	e Section 16.		
2.2.	Label elements				
	Product identification:	ORCEIN REAG	SENT		
	Identification number: -				



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

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.			



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	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.	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	ical attention and special treatment needed		
	No information available			

SECT	SECTION 5. Firefighting measures					
5.1.	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 we not contaminate the environm	vith water spray. Collect contaminated fire fighting water separately. Do ent with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			



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	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 compressed air breathing apparatus, a set for protecting the body from heat dissipation (fireproof clothing).					
6.2.	Environmental precautions:					
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.					
6.3.	Methods and materials for cont	ainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials				
6.3.2.	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 information.					

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 inc	ompatibilities				



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	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	SECTION 8. Exposure controls/personal protection						
8.1. Control parar	meters						
Substance	CAS N	CAS No		Occupational exposure limit values/short term values		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						
	Industrial						
Pouto of ovnocuro	Acute	Acute Acut		e Chronic		Chronic	
Route of exposure:	effect local	effect sys	stemic	e <sup>.</sup>	ffect local	effect systemic	
Oral	-	-		-		-	
Inhalation	1900 mg/m³ (ethanol)	-	-			380 mg/m³ (ethanol)	
Dermal	-	-		-		343 mg/kg (ethanol)	
Critical physical parameters: solubility, flammability, corrosivity:							
Consumer							
Pouto of exposure	Acute	Acut	te	Chronic		Chronic	
Route of exposure:	effect local	effect sys	stemic	e	ffect local	effect systemic	
Oral	-	-		-		87 mg/kg bw/day (ethanol)	



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Inhalatio	nhalation 950 mg/m³ - (ethanol)			- 114 mg/m <sup>2</sup>		<sup>3</sup> (ethanol)			
Dermal		-	-		-		206 mg/kg	(ethanol)	
PNEC									
Environn	nental pro	tection target		PNEC					
Fresh wa	iter			0.96 mg/l (	ethanol)				
Freshwat	ter sedime	ents		3.6 mg/kg	(ethanol)				
Marine v	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	sewage treatment		580 mg/l (e	ethanol)				
Soil (agri	icultural)			0.63 mg/kg	g (ethanol)				
Air			no information available						
8.2.	Exposure controls								
8.2.1.	Approp	riate engineering con	trols						
	measure	ce/mixture related es to prevent exposure dentified uses:	e	Do not eat, drink or smoke in the workspace. Use personal protective equipment.					
	Structur exposur	al measures to prever e:	nt	No information available					
		ational measures to exposure:		Organization of work in order to reduce other worker's influence during work process.			nce		
	Technic exposur	al measures to prever e:	nt	See Section	7.2				
8.2.2.	Persona	l protection equipme	nt						
8.2.2.1.	Eye and	face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.						
8.2.2.2.	Skin pro	tection							
	Pro			otective gloves must be according to the EU Directive 2016/425/EEG d standard EN 374.  Glove material: nitrile rubber  Glove thickness: ≥0.50 mm  Break through time: >480 min			ÆEC		



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	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	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No information ava	ilable		
8.2.3.	Environmental exposure cor	ntrols			
	Substance/mixture related r exposure:	measures to prevent	See Section 6		
	Structural measures to prevent exposure:		Use modern equipment.		
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.		
	Technical measures to preven	ent exposure:	See Section 6		

Information on basic physical and	chemical properties	
	Value	Method
Physical state:	liquid	no information available
Colour:	red	no information available
Odour/odour threshold:	ethanol like/no information available	no information available
Melting point / freezing point:	no information available	no information available
Boiling point or initial boiling point and boiling range:	no information available	no information available
Flammability:	no information available	no information available
Lover and upper explosion limit:	no information available	no information available
Flash point:	21 °C	no information available
Auto-ignition temperature:	no information available	no information available
Decomposition temperature:	no information available	no information available
pH:	no information available	no information available
Kinematic viscosity:	no information available	no information available
Solubility:	no information available	no information available
Partition coefficient n- octanol/water (log value):	no information available	no information available
Vapour pressure:	No information available	no information available



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	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:	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.						

SECTION 11. Toxicological information											
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008											
Acute toxicity:											
Route of exposure:	Method	Species	Effective Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results						
Oral:	-	rat	LD <sub>50</sub>	-	7.060 mg/kg (ethanol)						
Dermal:	-	rabbit	LD <sub>50</sub>	-	>20.000 mg/kg (ethanol)						
Inhalation:	-	rat	LC <sub>50</sub>	4 h (ethanol)	>8.000 mg/l (ethanol)						

	Specific effects	Target organ	Note
Oral:	No information available	No information available	-
Dermal:	No information available	No information available	-
Inhalation:	No information available	No information available	-

Aspiration hazard:	No information available



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Product code.		ORCR-OT-	· X	Date	oi con	ірпацо	[], I	4 NOV	2022 VE	ersion	. э
Irritation ar	nd co	rrocion									
IIIItation at	iu co	Exposur	e time	Species	<u> </u>		Evaluation		Method	4	Note
Skin corrosion/irritation		No informat available	ion	•	mation		ormation		No information available		-
Serious eye damage/irritation No informa available		ion	No infor available	mation	No info	ormation ble		No information available	n	-	
Sensitization											
Skin sensitizatio	n:	No infor	mation av	railable							
Respiratory sensitization:		No infor	mation av	ailable							
Symptoms re	elated	I to the phy	sical, cher	mical and toxi	icologica	al charac	cteristics				
Oral exposure:	sensation; In case of	higher le vomiting,	use irritation of vels of conce aspiration ca cause suffoca	ntration luses co	may cau	use nausea,	abdon	ninal pain ar	nd von	niting.	
Highmal Avnocilita:				er short expos racking and t		•		not like	ly. Long-ter	т ехр	osure
Inhalation exposure:			_	mounts of va	•	•	ately ventil	ated pe	erimeter ma	y caus	е
Eye exposure:		Direct eye sensation.		nay cause slig	ght to m	oderate	irritation, la	acrimat	ion and bur	ning	
Repeated do	se to						4 - 4 l l	F	-1	NI - 4	
Subacute oral		Dose ormation ailable	No available	information	No inform on availab	ati ir	dethod lo nformation vailable	No in	raluation  or  formation railable	Not	<u>e</u>
Subacute dermal		ormation ailable	No available	information e	No inform on availab	ati ir	lo nformation vailable		o formation ailable	-	
Subacute inhalation available		No available	information e	No inform on availak	atı ir	lo nformation vailable		o formation ailable	-		



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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	No informati on available	No information available	No informatio available	n -		
Subchronic inhalation	No information available	No information available	No informati on available	No information available	No informatio available	n -		
Chronic oral	No information available	No information available		n -				
Chronic dermal	No information available	No information available			No informatio available	n -		
Chronic inhalation	No information available	information available		No information available	No informatio available	n -		
C .c.			TOT DE)					
Specific targ	et organ toxicity	- repeated exposure (S Specific effect		Target o	raan	Note		
Subacute oral		No information availab		Target organ  No information available		-		
Subacute derm	nal	No information available				_		
Subacute inhal		No information available		No information available  No information available		_		
Subchronic ora		No information availab		No information available		_		
Subchronic de	rmal	No information availab	ole	No information a	available	_		
Subchronic inh	alation	No information availab	ole	No information a	available	_		
Chronic oral		No information availab	ole	No information a	available	-		
Chronic derma	l	No information availab	ole	No information a	available	-		
Chronic inhala	tion	No information availab	ole	No information a	available	_		
CNAD offorts	(carcing agaisit	mutagonicity rooms de-	ctivo tovici	- 4				
CIVIR effects		, mutagenicity, reproduc		-				
Carcinogoni	Carcinogenicity:  Mutagenicity in-vitro:			No information available  No information available				



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Geno	otoxicity:	No information available				
Muta	genicity <i>in-vivo</i> :	No information available				
Germ	n cell mutagenicity:	No information available				
Repro	oductive toxicity:	No information available				
Sumr	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 informations:					
	-					

SECTION 12. E	cological i	nformation				
12.1. Toxici	ty					
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Fish	No information available	8.140 mg/l (ethanol)	-
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants:	IC <sub>50</sub>	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 <sub>50</sub>	96 hours	No information available	No information available	No information available	_
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-



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

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Trade name:				ORCEIN REAGENT								
Product	code:	ORCR	-OT-X**		Date	of compilati	on:	14 No	v 2022	Version:	5	
		:	Ţ		•	*						
Other organism	ıs	-	-		_	-		-		-		
			d degradability									
	Abiotic	degradati					1					
		Degradation half-lives			lethod		luation		Note			
Marine water	No	informati	on availal	ole	No infor		No info availabl		-			
Fresh wat	ter No	o informati	on availal	ole	No informavailable		No info availabl		_			
Air	No	o informati	on availal	ole	No informavailable		No info availabl		<b>—</b>			
Soil	No	informati	on availal	ole	No infor		No info availabl		<u> </u>			
	1				;		i					
Biodeg	gradatio	n										
% Degradation Time (days)		Method		Eva	Evaluation		Note					
-	-			-	-		-		-			
12.3.		ccumulativ										
	Octa			coeffic	ient (log Ko		1		1			
Value		Concentra	ation	рН	°C	Method	k	Evaluation		Note		
-	-			-	-	-	-		-			
	1	tration Fac										
Valu	e		Species			Method		Evaluat	tion	Note		
No information available		No inform	No information available		No inform	No information available		informa	tion	-		
Chroni	ic ecoto	xicity										
Valu	ue	Dos	e	Exposu	ıre time	Species	Metho	od E	Evaluation	Not	e	
Chronic t	Chronic toxicity $LC_{50}$ No inform			nation	No	No	N	0	-			



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

Product code:		: ORCR-OT-X**		Date of compilation: 14			14 I	4 Nov 2022 Version:		
on fish	on fish a		avail	able		information available	inform availab		information available	1
Chronic toxicity on crustacea (Daphnia)		EC <sub>50</sub>		nformation able		No information available	No inform availab		No information available	<b>-</b>
12.4.	Mobility	in soil								
	Known c	r predicted	d distribut	ion in envir	onmer	ntal compartm	ents:			
	No infor	mation ava	ailable							
	Surface t	tension:								
	Va	lue		°C	Co	oncentration	Ме	thod		Note
	No inf available	formation	No i available	lo information		information ilable	No inforn availa	nation ble	-	
	A/D coefficient Henry's constant									
<del>i</del>	rt	A/D coeffi		log Ko	ow	Evaporatio	n rate		Method	Note
Transpo	rt H	A/D coeffi Henry's cor inf		log Ko No inform available		-			formation	Note
Transpo Soil-Wat	rt F ter No avail	A/D coeffice Henry's cor inf able inf	nstant	No inform	nation	No informa available	tion	No in	formation able formation	Note -
Transpo Soil-Wat Water-A	rt Hoter No avail	A/D coeffice Henry's correction informable informable information	ormation	No inform available No inform	nation	No informa available No informa available	tion	No in availa No in availa	formation able formation able formation	-
Transpo Soil-Wat Water-A	rt No avail No avail No avail	A/D coeffice Henry's correction informable informable information	ormation formation formation	No inform available No inform available No inform available	nation	No informa available No informa available No informa	tion	No in availa No in availa	formation able formation able formation	-
Transpo Soil-Wat Water-A Soil-Air	rt No avail No avail No avail Results c	A/D coeffice Henry's corrections infable infable infable	formation formation formation vPvB asse	No inform available No inform available No inform available	nation nation nation	No informa available No informa available No informa	tion tion tion	No in availa No in availa No in availa	oformation able oformation able oformation able	-
Transpo Soil-Wat Water-A Soil-Air	rt No avail No avail No avail Results c	A/D coeffice Henry's corrections infable infable infable	formation formation formation vPvB asse	No inform available No inform available No inform available	nation nation nation	No informa available No informa available No informa available	tion tion tion	No in availa No in availa No in availa	oformation able oformation able oformation able	-
Transpo Soil-Wat Water-A Soil-Air	rt Hoter No avail No avail Results of Based or	A/D coeffice Henry's corrections infable infable infable	ormation ormation ormation vPvB asse	No inform available No inform available No inform available ssment	nation nation nation	No informa available No informa available No informa available	tion tion tion	No in availa No in availa No in availa	oformation able oformation able oformation able	-
Transpo Soil-Wat Water-A Soil-Air	rt Hoter No avail No avail Results of Based or Endocrin	A/D coeffice denry's correct infable infable infable of PBT and available ine disrupting in a	formation formation formation vPvB asset data, the p	No inform available No inform available No inform available ssment product does	nation nation nation es not	No informa available No informa available No informa available	tion tion BT or vF	No in availa No in availa No in availa	oformation able oformation able oformation able	-
Transpo Soil-Wat Water-A Soil-Air	rt Hone avail No avail No avail Results of Based or Endocrin Based or	A/D coeffice denry's correct infable infable infable of PBT and available ine disrupting in a	ormation formation formation vPvB assertiate, the propertion data, does	No inform available No inform available No inform available ssment product does	nation nation nation es not	No informa available No informa available No informa available	tion tion BT or vF	No in availa No in availa No in availa	oformation able oformation able oformation able	-
Transpo Soil-Wat Water-A Soil-Air 12.5.	rt Hone avail No avail No avail Results of Based or Endocrin Based or Other ac	A/D coefficency's corrections in fable in fable in fable in fable in favailable in available in	ormation formation formation vPvB assertion data, the propertion data, does	No inform available No inform available No inform available ssment product does	nation nation nation es not	No informa available No informa available No informa available	tion tion BT or vF	No in availa No in availa No in availa	oformation able oformation able oformation able	-

#### **SECTION 13. Disposal considerations**

13.1. Waste treatment methods



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Trade name:	ORCEIN REAGENT				
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13.1.1.	Product/Packaging disposal:			
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.			
13.1.2.	Waste codes/waste designatio	ns according to Low:		
	Packaging that contains residu	al hazardous substances or is contaminated with hazardous substances		
13.1.3.	Waste treatment – relevant inf	ormation:		
	No information available			
12.1.1				
13.1.4.	Sewage disposal – relevant info			
	Waste must not be disposed o	if into the sewage system.		
13.1.5.	Other disposal recommendation	one:		
15.1.5.	•	's remains into the sewage system. Submit the remains to the collectors		
	•	harge. Do not dispose of the packaging into the sewage system. Submit		
	-	s authorized by the ministry in charge.		
13.1.6.	Relevant Community provision	ns:		
	Disposal must be made accord	ling to official regulations.		
SECTION	N 14. Transport information			
Trar	nsporting/shipment by road (ADF	R)		
UN num	ber	1170		
UN prop	er shipping name:	Ethanol solution		
Transpo	rt hazard class(es):	3		
Packing	group:	II		
Environr	nental hazards:	No information available		
Special precautions for user:		-		
Transporting/shipment by rail (RID)				
UN num	ber:	1170		
UN prop	er shipping name:	Ethanol solution		
Transpo	rt hazard class(es):	3		
Packing	group:	II		
Environr	nental hazards:	No information available		
Special p	precautions for user:	-		



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	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 (IMD0	G)		
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:	П		
Environmental hazards:	No information available		
Special precautions for user:	-		

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: -				



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Trade name:	ORCEIN REAGEN				
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	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission 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 guideline)	1999/13/EC about limitation of emissions of volatile organic compounds (VOC-	
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
15.2.	Chemical safety assess	sment	
	None		

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



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16.2.	Abbreviations and acronyms:		nyms:	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 lit	erature reference	s and source of data:	-	
16.4.		ication and proce	edure used to derive th	e classification for mixture according to Regulation (EC)	
Classific	cation		Classification procedure		
_			-		
16.5.	Releva	ant H statements	(number and full text)		
	H: 225		Highly flammable liquid and vapor.		
16.6.	Training advice:		-		
16.7.	7. Further information:		product) We are not responsib	code marks different volumes (different packaging of the le for consequences in case of failure to comply with improper use of the product described in this material	

ANNEY E				
ANNEX: Exposure scenario resulting to Chemical safety assessment				
· · · · · · · · · · · · · · · · · · ·				



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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**				
1.2	Relevant identified uses of the substance or mixture and uses advised against					
	Uses advised against:  Reason why uses advised against:		For use with special staining kits.			
			Only the identified uses are advised.			
			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: Address: Telephone number: Telefax.:		BioGnost Ltd.			
			Medjugorska 59, Zagreb			
			+385 1 2409997			
			+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone number					
	National Protection and Rescue Directorat		ectorate:	112		
	Medical information:	Medical information:		+385 1 2348 342		
	Other information:			-		

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



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Trading name:	OXALIC ACID, 2% SOLUTION				
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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	<b>Endocrine Disrupting Propert</b>	ties:		
	No known endocrine disrupting	g properties		
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is no PBT or a vPvB.			

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

SECTI	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.



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

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				
	Emergency procedures: Mark the area using proper signs.				
6.1.2.	For emergency responders:				
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			



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Trading name:	OXALIC ACID, 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:  Other measures:		Prevent spilling into the sewage system and waterways.		
			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 incom	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 from food and drink. Keep the con tightly closed.			
Advices for storage equipment: must be resistant to chemicals. The		e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper			



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Trading name:	OXALIC ACID, 2% SOLUTION				
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	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Ex	posui	e contro	ols/perso	nal pi	rotectio	on				
		ameters								
Substance			CA	S No	(			exposure limit term values	В	iological limit values
-						рр	m	mg/m³		3
				-		_	-	-	-	
							<b>'</b>			
Substance nam	ne:	-								
EC No:		-	CAS No	:	-					
DNEL										
						Indu	strial			
Route of		Acu	ıte		Acute			Chronic		Chronic
exposure:		effect	local	effe	ct syste	emic	effect local			effect systemic
Oral	-	•		-			-		-	
Inhalation		-		-			-		-	
Dermal	-			-			-		-	
Critical physica	l para	meters: s	solubility,	flamm	nability,	corro	sivity:	-		
						Cons	umer			
Route of		Ad	cute		Acute			Chronic		Chronic
exposure:		effec	t local	effe	ect syste	emic		effect local		effect systemic
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-			-		-	
PNEC										
Environmental	prote	ction tar	get			Р	PNEC			
Fresh water						n	no information available			
Freshwater sed	iment	S				ne	no information available			
Marine water						n	o inform	ation available		
Marine sedime	nts					ne	o inform	ation available		



Food chain

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

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

no information available

Microorganisms in sewage treatment			no information available
Soil (agric	:ultural)		no information available
Air			no information available
8.2	Exposure controls		
8.2.1.	Appropriate engineering controls		
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:		In accordance with Section 7.
	Organisational measures to prever exposure:	nt	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		
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.
8.2.2.2.	Skin protection		
	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 t impern	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of 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) equip with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed	
8.2.2.4.	Thermal hazards:	No info	ormation available
8.2.3.	Environmental exposure controls		
	Substance/mixture related measures to prevent exposure:	See Se	ction 6



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Trading name:	OXALIC ACID, 2% 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

Lover and upper explosion limit:  Flash point:  No information available	Information on basic physical and	chemical properties	
Colour:  Colourlodour threshold:  No information available  Melting point / freezing point:  No information available  No information available		Value	Method
Odour/odour threshold:  Melting point / freezing point:  No information available  Boiling point or initial boiling point and boiling range:  Flammability:  No information available  No information available  Lover and upper explosion limit:  No information available  Flash point:  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  Lover and upper explosion limit:  No information available  Flash point:  No information available	Colour:	colourless	No information available
Boiling point or initial boiling point and boiling range:  Flammability:  No information available  Lover 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  Lover 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
Lover and upper explosion limit:  No information available  Flash point:  No information available  Auto-ignition temperature:  No information available  Decomposition temperature:  No information available  No information available  PH:  No information available	9.	No information available	No information available
Flash point:  No information available  Auto-ignition temperature:  No information available  Decomposition temperature:  No information available  No information available  PH:  No information available  Partition coefficient nootanol/water (log value):  No information available	Flammability:	No information available	No information available
Auto-ignition temperature: No information available No information available Decomposition temperature: No information available No information available pH: No information available No information available No information available Solubility: No information available No information available No information available Partition coefficient noctanol/water (log value): No information available No information available No information available Density and/or relative density: No information available No information available Relative vapour density: No information available	Lover and upper explosion limit:	No information available	No information available
Decomposition temperature:  No information available	Flash point:	No information available	No information available
pH:  Kinematic viscosity:  No information available  Partition coefficient n- octanol/water (log value):  Vapour pressure:  No information available	Auto-ignition temperature:	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):  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	pH:	No information available	No information available
Partition coefficient n- octanol/water (log value):  Vapour pressure:  No information available	Kinematic viscosity:	No information available	No information available
octanol/water (log value):  Vapour pressure:  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

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 (room temperature).				



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Trading name:					
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 Inform	nation on hazard classe	s as defined i	n Regulation	(EC) No 1272/20	800		
Acute	toxicity:						
Route of exposure:	Method	Species		Dose LD <sub>50</sub> /LC <sub>50</sub> ATE <sub>mixture</sub>	Exposure	time R	esults
Oral:	No information available	-	No inforn	nation available	-		-
Dermal:	No information available	-	No inforn	nation available	-		-
Inhalation:	No information available	-	No inforn	nation available	-		-
*							
Specif	ic target organ toxicity	– single expo	sure (STOT S	E):			
	Specif	ic effects		Target orga	1	Not	e
Oral:	No information a	available	No i	No information available		_	
Dermal:	No information a	mation available		nformation avail	able	-	
Inhalation:	No information a	rmation available		No information available -			
Aspira	tion hazard:	N	o informatio	n available.			
Irritati	on and corrosion  Exposure	time	Species	Evaluation	Method	No	nte
Skin corrosion/irrita	_	-		-	-	-	
Serious eye damage/irritati	on -	-		-	-	-	
Sensiti	ization						
Skin sensitization		rmation availa	available				
Respiratory sensitization: No information a							



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

Oral exposure:		No informati	on available.				
Dermal exposure	2:	No informati	on available.				
Inhalation exposure: No information			on 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 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 avail	information able	No information available	No information available	No information available	No information available	-
Chronic oral	No avail	information able	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 toxicit	y – repeated e	xposure (STOT	RE):	:	
			Specific effec	ts	Target o	rgan	Note
Subacute oral			tion available		No information		
Subacute dermal		No informa	tion available		No information	n available -	



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

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	ronic dermal No information available		No information available	-		
Chronic inhalation	onic inhalation No information available		No information available	-		
CMR effects (	carcinogenicity; mutagenicit	y; reproductiv	e toxicity)			
Carcinogenic	ity:	Based on ava	ilable data, the classification o	criteria are not met.		
Mutagenicity	in vitro:	Based on ava	ilable data, the classification o	criteria are not met.		
Genotoxicity:		Based on available data, the classification criteria are not met.				
Mutagenicity	in vivo:	Based on ava	ilable data, the classification o	criteria are not met.		
Germ cell mu	tagenicity:	Based on ava	ilable data, the classification o	criteria are not met.		
Reproductive	toxicity:	Based on available data, the classification criteria are not met.				
Summary o properties:	f evaluation of the CN	MR Based o met.	n available data, the classific	ation criteria are not		
11.2 Information of	on other hazards:					
11.2.1. Endocrine dis	rupting properties:					
components disrupting pr Article 57(f) regulation (E	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.					
11.2.2. Other inform	ations:					
-						

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



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

Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No inforr availa	mation Ible	-
Algae/aquatic p	olants	IC <sub>50</sub>	4 days	No information available	No information available	No inforr availa	nation Ible	-
Other organism	าร	-	-	-	-	-		-
Chronic (long-t toxicity	nronic (long-term) Dose Exposure		e Species	Method	Eva	luation	Note	
Fish		LC <sub>50</sub>	96 hours	No information available	No No information infor available avail		mation Ible	_
Crustacea: EC <sub>50</sub> 48 hours		No information available	No information available	No inforr availa	nation Ible	-		
Algae/aquatic plants		IC <sub>50</sub>	72 hours	No information available	No information available	No inforr availa	mation Ible	-
Other organisms		-	-	-	-		-	
		nd degradal	oility					
Abiotio		ndation	10.1.					N
	De	gradation h	alf-lives	Method	Evaluation			Note
Marine water	No ir	nformation a	vailable	No information available	No information available		-	
Fresh water	No ir	nformation a	vailable	No information available	No information available		-	
Air	No ir	nformation a	vailable	No information available	No information available		-	
Soil	No information available		No information available	No information available		-		
Biodeç	gradatio	on						
% Degradation	on	Time (d	days)	Method	Evaluatio	on		Note
No information Navailable a		No in	formation	No information available	No informatio	on	No info	



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12.3	Bioaccumu	lative p	otential								
	Octanol-wa	ater par	tition coeffi	cient (	log Kow)	)					
Value	e Cor	centrat	ion pl	-1	°C	М	ethod	Eva	Evaluation		Note
-	-		-	•		•		-		-	
	Bioconcent	tration f	actor (BCF)								
V	alue		Species		Method		Evalua	tion		Note	
No info	lo information No information		ation	No info		n	No informa available	tion	-		
	<u>.                                    </u>							<u> </u>		<u> </u>	
	Chronic ec	otoxicit	у								
	Value		Dose	-	posure time Species		Method	Ev	aluation	Note	
Chronic	toxicity on	fish	LC <sub>50</sub>	No informavaila	mation able	No inforr availa	nation Ible	No information available		rmation ilable	1
	toxicity on ea ( <i>Daphnia</i> )	)	EC <sub>50</sub>	No informavaila	mation able	No inforr availa	mation Ible	No information available		rmation lable	-
			:				:		i		i
12.4	Mobility in	soil									
			d distribution	on in e	environm	ental c	ompart	ments:			
	No informa		ailable								
	Surface ter Value	nsion:	°C			<b>.</b> :		N 4 - 4			Nista
	No	No		C	oncentra	tion	0 0 0 0 0 0 0 0 0 0 0	Method			Note
	information available	n info	ormation ailable	availahle availahle			-				
	Adsorption	, / doso	rotion								
	Ausorption	i / ues0	ιριισιί								



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Trading name:		OXALIC ACID, 2% S	OLUTION		
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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			
ad	ne substance/mixture does of eccording to REACH Article 5 egulation (EU) 2018/605 at l	7(f) or Commission	n Delegated regulation		
12.6. Er	ndocrine disrupting propert	ies			
ac	ne substance/mixture does of ccording to REACH Article 5 egulation (EU) 2018/605 at l	7(f) or Commission	n Delegated regulation		
12.7 O	ther adverse effects				
N	o further relevant information	on available.			
SECTION '	13. Disposal consideration	S			
	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	o 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				



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

13.1.4.	Sewage disposal – relevar	Sewage disposal – relevant information:					
	Waste must not be dispos	sed of into the sewage system.					
13.1.5.	Other disposal recommer	ndations:					
	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.	13.1.6. Relevant Community provisions:						
	Disposal must be made a	ccording to official regulations.					
SECTION	N 14. Transport informatio	on .					
	Transporting/shipment by r	road (ADR)					
UN num	ber:	Not subject to transport regulations					
UN prop	er shipping name:	-					
Transport hazard class(es):		-					
Packing group:		-					
Environmentally hazardous:		-					
Special p	precautions for user:	-					
	Transporting/shipment by r	ail (RID)					
UN num	ber:	Not subject to transport regulations					
UN prop	er shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environr	nentally hazardous:	-					
Special p	precautions for user:	-					
	Inland waterway transport (	ADN)					
UN num	ber:	Not subject to transport regulations					
UN prop	er shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing group:		-					
Environr	nentally hazardous:	-					
Special p	precautions for user:	-					
	Transporting/shipment by s	sea (IMDG)					
UN num	ber:	Not subject to transport regulations					
UN prop	er shipping name:	-					



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Trading name:	OXALIC ACID, 2% SOLUTION				
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Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTION	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);			



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	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)					
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2	Chemical safety assessm	ent				
	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)	sed to derive the classification for mixture according to Regulation (EC)		
Classifi	ication	Classification procedure		
-		-		
16.5.	Relevant H statements (numb	er and full text)		
	H: -	-		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings 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

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



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

SECTION	ON 1: Identification of	the substa	nce/mixture	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	POTASS	ium permano	GANATE, 1% SOLUTION	
	Chemical name:	-			
	Catalogue number:	KP1-OT	-X**		
1.2.	Relevant identified us	es of the s	ubstance or mi	xture and uses advised against	
	Uses:		For use with	special staining kits.	
	Uses advised against:		Only the ide	ntified uses are advised.	
	Reason why uses advi	sed	The product is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier	of the saf	ety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 24099	997	
	Fax no.:		+385 1 24040	039	
	e-mail of competent p	person:	msds@biogn	<u>ost.hr</u>	
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone number			
	National Protection a	nd Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regula	ition (EC) No 12	72/2008 (CLP)			
	Hazard class and category	code:	Hazard statements*:			
	Aquatic Chronic 3 H412					
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-sta	atements: see S	ection 16			
2.2.	Label elements					
	Product identification:	POTASSIUM I	PERMANGANATE, 1% SOLUTION			
	Identification number: -					
	Authorization no.:	-				
	Hazard pictograms:	-				



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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	ties:			
	No known endocrine disrupting properties				
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a PBT or a vPvB.				

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

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid measure	es			
	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 aide	er:	Treat symptomatically.		
4.2.	Most important symptoms and	d effe	ects, both acute and delayed		
	Following inhalation:	No ir	nformation available		
	Following skin contact:	No ir	nformation available		
	Following eye contact:	No ir	nformation available		
	Following ingestion:	No information available			
4.3.	Indication of any immediate medical attention and special treatment needed				
	-				

### **SECTION 5 Firefighting measures**



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

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

SECTIO	ON 6. Accidental release meas	ures			
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne	el			
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	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				



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

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



exposure:

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

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Trading na	me:			POTA	SSIUM	PERMAN	IGAI	NATE, 19	% SOLUTIO	ON
Product co	ode:	KP1-OT	-X**		Date o	f compila	tion:	21 De	c 2022	Version: 4
	i									1
Potassium	permanga	anate	7722-6	54-7		-		5	No inform	ation available
Substance name:	-									
EC No:	_		CAS No:	_						
DNEL										
					Inc	lustrial				
Route of		A	Acute		Acut	e		Chro	nic	Chronic
exposure:		effe	ect local	e	effect sys	temic		effect l	ocal	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
Critical phys	sical para	meters: s	olubility, fla	ımmak	oility, cor	rosivity:		-		
					Co	nsumer				
Route of		P	Acute Ac		Acut	e Chronic		nic	Chronic	
exposure:		effe	ect local	effect sys		temic	effect local		ocal	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC						T				
Environmen	ntal prote	ction tar	get			PNEC				
Fresh water	•				No information available					
Freshwater	sediment	ts			No information available					
Marine wat	er					No information available				
Marine sed	iments					No information available				
Food chain						No information available				
Microorgan	isms in se	ewage tr	eatment			No information available				
Soil (agricul	ltural)					No inform	natio	n availabl	е	
Air				No inform	natio	n availabl	е			
8.2.	Exposur	e contro	ls							
8.2.1.	Appropriate engineering controls									
	measure		re related vent exposu uses:	ıre		•				se personal protective e workspace.
	Structural measures to prevent			No information available						



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

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

SECTI	ON 9. Physical and chemical propertie	s	
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



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

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

SECTIO	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	l 11. Toxic	ological information						
11.1.	Information on toxicological effects							
Acute toxicity:								
Route of exposure		Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results		
Oral expo	osure:	No information available	-	LD <sub>50</sub>	-	-		
Dermal e	xposure:	No information available	_	LD <sub>50</sub>	-	_		



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Trading name:		POTASSI	UM PERMAN	GANATE, 1	% SOLUTION	
Product code:	KP1-OT-X**	Da	ite of compilat	ion: 21 De	ec 2022	Version: 4
		: 		:		1
Inhalation	No informati	on _		LC <sub>50</sub>	_	<u>-</u>
exposure:	available					
Specific t	arget organ toxicit	, , ,	osure (STOT SE):			
	Spe	ecific effects		Target orga	n	Note
Oral exposure:	No informa	ation available	No infor	mation availa	ble -	
Dermal exposure:	No informa	ation available	No infor	mation availa	ble -	
Inhalation exposu	re: No informa	ation available	No infor	mation availa	ble -	
Respirato	ory irritation:	N	o information a	vailable		
Irritation	and corrosion					
	Exposure tim	ie Speci	es Eva	luation	Method	Note
Skin irritation:	-	-	-			
Eye irritation:	_	-	-			
	:	i	ı		i i	
Sensitizat	tion					
Dermal exposure:	No information	available				
Inhalation	<b>N.</b>					
exposure:	No information	available				
Symptom	ns related to the pl	nysical, chemic	al and toxicolog	ical character	istics	
Oral exposure:	No information	available				
Dermal exposure:	No information	available				
Inhalation exposure:	No information	available				
Eye exposure:	No information	available				
Repeated	dose toxicity (sub	acute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No informatio n available	No informati available	ion -
Subacute dermal	No information available	No information available	No information available	No informatio n available	No informati available	ion _



Subacute

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

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

No

No

Mutagenicity in-vivo:

Subacute inhalation	No availa	information ible	information available	infor avail	mation able	informatio n available	No infor available		-
Subchronic oral	available		No information available	No infor avail	mation able	No informatio n available	No infor		-
Subchronic dermal	ubchronic No information		No information available			No informatio n available	No infor		-
Subchronic inhalation			No information available	No information		No informatio n available	No information available		-
Chronic oral	ronic oral No information available		No information available			No informatio n available	No information available		-
Chronic dermal	nal No information information info		No infor avail	mation able	No informatio n available	No information available		-	
Chronic No information halation available		No information available			No informatio n available	No information available		-	
Specific	target	organ toxicit	y – repeated e	xposui	re (STOT	RE):			
		1	cific effects	•	`	Target organ			Note
Subacute oral		No informa	ition available			mation availab	le	_	
Subacute derma		No informa	ition available	n available No inf		No information available		-	
Subacute inhalat	ion	No informa	tion available		No information available		_		
Subchronic oral		No informa	ition available		No information available		-		
Subchronic derm	nal	No informa	ition available		No information available		le	-	
Subchronic inhal	ation	No informa	ition available		No information available		-		
Chronic oral		No informa	ition available		No infor	mation availab	le	-	
Chronic dermal No information		ition available		No infor	o information available		-		
Chronic inhalation	n	No informa	tion available		No infor	mation availab	le	_	
	· · ·				1				
			y, mutagenicity	<u> </u>					
Carcino					n availab				
Mutage		יו-ענניט:		No information available  No information available					
Genoto	Genotoxicity:			iiiatiO	ıı avallaD	IE			

No information available



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

	Germ cell mutagenicity: No in	formation available
	Reproductive toxicity: No in	formation available
	Summary of evaluation of the CMR prop	perties: -
11.2	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	-
11.2.2.	Other informations:	
	-	

### **SECTION 12. Ecological information**

#### 12.1. Toxicity

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



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Trading name:		POTASSIUM PERMANGANATE, 1% SOLUTION									
Product cod	e:	KP1-OT-X**		D	Date of compilation:		21 Dec	2022	Versio	n: 4	
Algae/aquation plants		IC <sub>50</sub>	72 ho	hours  No information available  No information available				-   -			
Other organis	ms	-	-	-		-	-		-		
		e and degrada	bility								
Abio		gradation									
		egradation ha	lf-lives		Method			Evaluation	on	Note	
Marine water	No	information available		No in	No information available		No inform	ation av	vailable	-	
Fresh water	No	information available		No in	formation availa	able	No inform	ation av	/ailable	-	
Air	No	information av	ailable	No in	formation availa	able	No inform			-	
Soil	No	information av	ailable	No in	formation availa	able	No inform	ation av	/ailable	-	
	egrad		_								
% Degradation	_	Time (day		Method			Evaluatio			ote	
No information No in available available			mation				information ailable	)II	No informa available	uon	
		ulative potentia		ater (log	Kow).						
Value		ncentration	рН	°C	Method		Evalua	ation	1	Note	
_	No availa	information	-	-	No information	on	No inform		-		
									i i		
	oncen	tration factor (	BCF)								
Bioco	Value Species		5		Method		Evaluati	on	<u> </u>	Vote	
		•					No information available		No inforr	mation	
	on	No infor	mation		le	ava	ailable		available		
Value No informatio	on	No infor	mation		le	ava	ailable		available		



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

Produc	ct coc	de: K	P1-OT-X**	Date	of co	mpilatio	n: 21 De	c 2022	Versio	on: 4
	Val	lue	Dose	Exposure time	Spe	ecies	Method	Evalua	ntion	Note
Chronic	toxic	ity on fish	LC <sub>50</sub>	1	No informavaila	nation Ible	No information available	No inforn available	nation	<b>-</b>
Chronic crustace		-	EC <sub>50</sub>		No inforr availa	1	No information available	No inforn available	nation	
12.4.	Mob	oility in so	il							
	Kno	wn or pre	dicted distribut	ion in environme	ental c	ompartn	nents:			
	No i	nformatio	on available							
	Surf	ace tensic	on:							
	\	/alue	°C	Concentra	tion		Method			Note
	No information available		No informati available	ion No information available		No info	formation available		-	
	Ads	orption /	desorption							
Transpo	ort	•	coefficient /'s constant	log Kow		Evapora	tion rate	Method		Note
Soil-wa	ter	No available	information	No information available		o informa ailable	ation	No information available	n -	
Water-a	air	No available	information	No information available		o informa ailable	ation	No information available	n -	
Soil-air		No available	information	No information available		o informa ailable	ation	No information available	n -	
			· <u> </u>							

### 12.6. Endocrine disrupting properties



Trading name:

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

**POTASSIUM PERMANGANATE, 1% SOLUTION** 

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	according	to REACH Article 57	ot contain components consider (f) or Commission Delegated reg vels of 0.1% or higher.		
12.7.	Other adv	erse effects			
	No inform	ation available			
SECTION	l 13. Disp	osal considerations			
13.1.	Waste tr	eatment methods			
13.1.1.	Product	/Packaging disposal:			
	Submit f Protection	•	gal person authorized by the Mi	nistry of Environme	ntal and Nature
13.1.2.	Waste co	odes/waste designat	ions according to Law:		
	No infor	mation available			
13.1.3.		eatment – relevant ii	nformation:		
	No infor	mation available			
13.1.4.	Sewage	disposal – relevant ir	nformation:		
	Waste m	nust not be disposed	of into the sewage system.		
13.1.5.	Other di	sposal recommenda	tions:		
	authoriz the pack	ed by the ministry in	ct's remains into the sewage sys charge. Do not dispose of the p ors authorized by the ministry in	ackaging into the s	ewage system. Submit
13.1.6.	Relevant	Community provision	ons:		
	-				
SECTION	l 14. Trans	sport information			
	Transporti	ng/shipment by road	d (ADR)		
UN num	ber:		3082		
UN prop	er shippin	g name:	Environmentally hazardous s permanganate)	ubstance, liquid, n.c	o.s. (potassium
Transpor	t hazard c	ass(es):	9		



#### **SAFETY DATA SHEET**

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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:	-



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

SECTIO	ECTION 15. Regulatory information						
15.1.	Safety, health and environ	mental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or restrictions of use						
	Authorizations:	-					
	Restrictions:	-					
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;  Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;  Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;  Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;  REACH Restrictions on the manufacturing, placing on the market and use of certain					
		dangerous substances, mixtures and articles (Annex XVII);					
	Information according 199 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 assessmer	nt					
	None						

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



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Trading name:	POTASSIUM PERMANGANATE, 1% SOLUTION						
Product code:	KP1-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 use 1272/2008 (CLP)		used	to derive the classification for mixture according to Regulation (EC)		
Classifi	cation		Clas	sification procedure		
-			-			
16.5.	Relev	vant H statements (numl	oer ar	nd full text)		
		272	•	May intensify fire; oxidiser.		
		302		mful if swallowed.		
	H:	400	-	toxic to aquatic life.		
		410	-	toxic to aquatic life with long lasting effects.		
		413	May	cause long lasting harmful effects to aquatic life.		
16.6.	Train	ning advice:	-			
				(" in the product code marks different volumes (different packagings of product)		
16.7.	Furth	ner information:	instr	are not responsible for consequences in case of failure to comply with ructions for use or improper use of the product described in this erial safety data sheet.		

Δ	N	N	F	X	-

**Exposure scenario resulting to Chemical safety assessment** 

-



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

SECTI	ON 1 Identification of	the substa	nce/mivture :	and of the company/undertaking	
1.1.	Product identifier	the substa	iice/iiiixture (	and of the company, under taking	
	Trading name:	SULFURIC ACID, 0.3%		SOLUTION	
	Chemical name:	-			
	Catalogue number:	SK03-OT	T-X**		
1.2.	Relevant identified us	es of the su	ıbstance or mi	xture and uses advised against	
	Uses:		For use with	special staining kits.	
	Uses advised against:		Only the ide	ntified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent	person:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone number			
	National Protection a	nd Rescue I	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 2. Hazards identification					
2.1.	Classification of the substance or	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	tion (EC) No 12	272/2008 (CLP)			
	Hazard class and category	code:	Hazard statements*:			
	Not identified as hazardous subst	ance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16			
2.2.	Label elements					
	Product identification:	SULFURIC AC	ID, 0.3% SOLUTION			
	Identification number:	-				
	Authorization no.:	-				
	Hazard pictograms:	-				



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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 Propertie	es:
	No known endocrine disrupting p	properties
	<b>Results of PBT and vPvB assess</b> PBT or a vPvB.	<b>ement</b> : According to the results of its assessment, this substance is not a

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			

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



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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			
	-			

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

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



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

SECTION 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:	-		



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SECTION 8. Exposur		ols/persona	al protec	tion				
8.1. Control para	meters	T						
Substance		CAS 1			cupational exposure limit alues/short term values		Biological limit values	
				ppm	mg/m³			
-		-			-	-	No information available	
Substance - name:	-							
EC No: -		CAS No:	-					
DNEL								
				Inc	dustrial			
Route of	<i> </i>	Acute		Acut	e	Chronic	Chronic	
<b>exposure:</b> effe		ect local	effe	ct sys	temic	effect local	effect systemic	
Oral	-		-			-	-	
Inhalation	Inhalation				-	-		
Dermal					-	-		
Critical physical parar	meters: s	solubility, fla	ımmabilit	y, cor	rosivity:	-		
				Co	nsumer			
Route of	/	Acute		Acut	e	Chronic	Chronic	
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC								
Environmental protect	ction tar	get			PNEC			
Fresh water					No infor	mation available		
Freshwater sediments	S				No information available			
Marine water					No information available			
Marine sediments					No information available			
Food chain					No information available			
Microorganisms in sewage treatment				No information available				
Soil (agricultural)					No infor	mation available		
Air					No infor	mation available		



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

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



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

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

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



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Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results
Oral exposure:	No information available	-	LD <sub>50</sub>	-	-
Dermal exposure:	No information available	-	LD <sub>50</sub>	-	-
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-	_
Specific tar	get organ toxicity – s	inale exposure	(STOT SF)		
эрсете саг	Specific		Target organ		Note
Oral exposure:	No information		No information available	-	
Dermal exposure:	No information	available	No information available	_	
Inhalation exposure:	No information	available No information available -			
Respiratory	irritation:	No inf	ormation available		
Irritation ar	nd corrosion				
milation ar	Exposure time	Species	Evaluation	Meth od	Note
Skin irritation:	-	-	-		
Eye irritation:	-	-	-		
Sensitizatio	n				
Dermal exposure:	No information avai	lable			
Inhalation	No information avai	lable			
exposure:					
exposure:	related to the physic	al, chemical an	d toxicological characterist	ics	
exposure: Symptoms	related to the physic		d toxicological characterist	ics	
Symptoms Oral exposure:	1	vailable	d toxicological characterist	ics	
exposure:	No information a	vailable vailable	d toxicological characterist	ics	



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

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



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Chronic	inhalation	No informat	tion available	No information available	-
	CMR effects (c	carcinogenicity	. mutagenicity	, reproductive toxicity)	
	Carcinogenicit			available data, the classification criteria	are not met.
	Mutagenicity i	in-vitro:	Based on	available data, the classification criteria	are not met.
	Genotoxicity:		Based on	available data, the classification criteria	are not met.
	Mutagenicity i			available data, the classification criteria	
	Germ cell mut			available data, the classification criteria	
	Reproductive :	toxicity:	Based on	available data, the classification criteria	are not met.
11.2	Summary of e			ties: -	
11.2.1.	Endocrine disr				
		nce/mixture ponents con ne disrupting REACH Artic Delegated regi	does not sidered to properties le 57(f) or ulation (EU) Regulation		
11.2.2.	Other informa	tions:	:		
	-				

### **SECTION 12. Ecological information**

#### 12.1. Toxicity

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



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

#### 12.2. Persistence and degradability

Abiotic degradation

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	1
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	-

D: 1		
RION	aaraa	dation
DIOU	cyrac	aation

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

#### 12.3. Bioaccumulative potential

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

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

Bioconcentration factor (BCF)



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	Value Species		Me	Method I			Note		
No info	ormation ble	n No informatio available		on No information available		No information available	No information available		ailable
	Chronic e	ecotoxic	ity						
	Value		Dose	Exposure time	Species	Method	Eva	lluation	Note
Chroni	ic toxicity o	n fish	LC <sub>50</sub>	No information available	No information available	No information available	No infavailat	ormation ble	-
	ic toxicity or cea ( <i>Daphni</i>		EC <sub>50</sub>	No information available	No information available	No information available	No information - available		_
12.4.	Mobility Known o		tod distributi	on in onvironm					
	11110111110	picuic	tea aistributi	on in environme	ental compart	tments:			
	No inforr	nation a		on in environme	ental compari	tments:			
		nation a		Concentrat		Method			lote
	No inforr	mation a ension: N on ir	available		ion		able	- N	lote
	No information No information	mation a ension: N on ir	°C lo	Concentrat  No informat	ion	Method	able		lote
	No information No information	mation a ension: N on ir	°C lo nformation vailable	Concentrat  No informat	ion	Method	able		lote
Transp	No informati available  Adsorption	on / des	°C lo nformation vailable	Concentrat  No informat	ion No int	Method			lote
Transp Soil-w	No informati available  Adsorption out	on / des	°C lo nformation vailable corption efficient	Concentrat  No informat available	ion No int	Method formation avail		- Method ormation	
	No inform Surface to Value No informati available  Adsorption out the state of the	on / des A/D coel Henry's e	°C lo nformation vailable corption efficient constant	Concentrat  No informat available  log Kow  No informatio	Evapo  No inform available	Method formation avail pration rate	No infavailab	Method ormation ble ormation	



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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.
10.6	
12.6.	Endocrine disrupting properties
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7.	Other adverse effects
	No information available
	TVO IIIOTTIALIOTI AVAITABLE
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:



#### **SAFETY DATA SHEET**

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

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



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Special precautions for us	er:	-
Further information:	-	

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or rest	rictions of use			
	Authorizations:	-			
	Restrictions:	-			
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;  Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;  Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;  Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;  REACH Restrictions on the manufacturing, placing on the market and use of certain			
	Information according 19	dangerous substances, mixtures and articles (Annex XVII); 99/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	guideline)	22, 13, 22 22 22tation of children of totalic organic compounds (voc			
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessme	ent			
	None				

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



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

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**Exposure scenario resulting to Chemical safety assessment** 

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