

MOVAT KIT

The kit contains:

Acetic acid, 0.5% solution
Alcian Blue solution pH 2.5
Alkaline alcohol, solution
Biebrich Scarlet-Acid Fuchsin reagent
Ferri reagent, Verhoeff B
Hematoxylin, Verhoeff A
Iodine solution, Verhoeff C
Orange G, 1% solution
Phosphotungstic acid, 5% solution
Reagent for differentiation, Verhoeff
Sodium thiosulfate, 5 solution



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

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Trading name:	ACETIC ACID, 0.5% SOLUTION				
Product code:	OK05-OT-X**	Date of compilation:	23 Dec 2022	Version:	3

SECTI	ON 1: Identification of t	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier	Product identifier			
	Trading name:	ACETIC ACI	D, 0.5% S0	DLUTION	
	Chemical name:	-			
	Catalogue number:	OK05-OT-X	* **		
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advis	sed against:	duct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnos	t Ltd.	
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2	2404039	
	e-mail of competent p	erson:	msds@b	oiognost.hr	
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			-	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance	Classification of the substance or mixture				
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and catego	ory code:		Hazard statements*:		
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For ful	I text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	ACETIC ACID, 0.	5% SOLUTION			
	Identification number:	lentification number: -				
	Authorization number:	-				
	Hazard pictograms:	-				



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	The product has no other know	n 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)	
64-19-7/ 200-580-7/ 607-002-00-6	-	0.5%	acetic acid, glacial 99%	Flam. Liq. 3; H226 Skin Corr. 1A; H314	

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:	_	



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

SECTION	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	water spray, dry powder, CO2 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 co	ompressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with w contaminate the environment with e	vater spray. Collect contaminated firefighting water separately. Do not extinguishing media.			

SECTIO	ON 6. Accidental release measur	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. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.	
	Emergency procedures:	Mark the area using proper signs.	
6.1.2.	For emergency responders:		
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).		
6.2	Environmental precautions:		
	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 conta	inment and cleaning up	



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6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
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 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	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 incom	patibilities			
	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 containers tightly closed.			
	Advices for storage equipment:	must be re	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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		Do not place	the unused materia	al in the storage r	oom.

	Further information on storage conditions	S:	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:	-	

SECTIO	ON 8. Exposi	ure contro	ols/perso	nal pr	otectio	on				
8.1	Control pa		- 1							
	Substance		CA	S No	C			exposure limit term values	Biol	ogical limit values
						рр	m	mg/m³		
Acetic acid		64	-19-7		10/	/20	25/50		-	
Substa	ince name:	-								
EC No:	:	-	CAS No):	-					
DNEL		1	<u> </u>		<u> </u>					
						Indu	strial			
Route	of	Acı	ıte		Acute			Chronic		Chronic
expos	ure:	effect	ocal effect systemi		emic	effect local			effect systemic	
Oral		-	-			-		-		
Inhalat	tion	-		-			-		-	
Derma	ıl	-		-			-		-	
Critical	l physical par	ameters: s	olubility,	flamm	ability,	corro	sivity:	-		
						Cons	umer			
Route	of	Acı	ute		Acute			Chronic		Chronic
expos	ure:	effect	local	effe	ct syste	emic		effect local		effect systemic
Oral		-		-			-		-	
Inhalat	tion	-		-			-		-	
Derma	ıl	-		-			-		-	
PNEC										
Environmental protection target			Р	PNEC						
Fresh water			ne	no information available						
Freshw	vater sedimer	nts				n	no information available			
Marine	e water					n	no information available			
Marine	e sediments					ne	no information available			



Food chain

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

no information available

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Substance/mixture related measures to prevent exposure:	See Se	ction 6		
. Environmental exposure controls				
.4. Thermal hazards:		ormation available		
.3. Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GV			
Other skin protection:	footwe entire t impern	every day 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.		
Hand protection:		otective gloves have to satisfy the specification of action (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
.2. Skin protection				
.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.			
. Personal protection equipment				
Technical measures to prevent ex	rposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
Structural measures to prevent exposure:		In accordance with Section 7.		
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.		
. Appropriate engineering controls	S			
Exposure controls				
(25.100.10.0.)		no information available		
_		no information available no information available		
oorganisms in sewag (agricultural)	e treatment	e treatment		



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

	Information on basic physical and	chemical properties		
		Value	Method	
	Physical state:	liquid	No information available	
	Colour:	colourless	No information available	
	Odour/odour threshold:	mild acetic acid 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	potentiometric measurement	
	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:	0.85 – 0.9	No information available	
	Kinematic viscosity:	No information available	No information available	
	Solubility:	No information available	No information available	
	Partition coefficient noctanol/water (log value):	No information available	No information available	
	Vapour pressure:	No information available	No information available	
	Density and/or relative density:	No information available	No information available	
	Relative vapour density:	No information available	No information available	
	Particle characteristics:	No information available	No information available	
.2	Other information			

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



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

11.1 Informati	on on hazard	classes as defined in	n Regulation (EC) No 1272/	/2008			
Acute to	cicity:							
Route of exposure:	Method Specie		Dose LD ₅₀		Exposure tim	ne Results		
Oral:	-	No information available	-		lo information vailable	-		
Dermal:	-	No information available	-		lo information vailable	-		
Inhalation:	-	No information available	-		lo information vailable	-		
Specific t		xicity – single expos	sure (STOT SE			Niete		
Oralı		pecific effects	NI - :	Target org		Note		
Oral:				formation ava		_		
Dermal:						_		
Inhalation:	ino intorma	tion available	INO IN	formation ava	aliable	-		
Aspiratio	n hazard:	No	information	available.				
ļ		:						
Irritation	and corrosion							
	Expo	osure time	Species	Evaluation	Method	Note		
Skin corrosion/irritatio	n: -	-		-	-	-		
Serious eye damage/irritation	-	-		-	-	_		
Sensitiza								
Skin sensitization:	-							



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Oral exposure:		Harmful if sw	allowed.				
Dermal exposure):	Harmful if ab	sorbed throug	h skin. May cau	ıse skin irritation	•	
Inhalation expos	ure:	Harmful if inl	haled. May cau	ise respiratory t	ract irritation.		
Eye exposure:		May cause ey	ye irritation.				
Repeate	ed dos	se toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available No information		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		information lable	No information available	No information available	No information available	No information available	-
Subchronic dermal	No avai	information lable	No information available	No information available	No information available	No information available	_
Subchronic inhalation		information lable	No information available	No information available	No information available	No information available	-
Chronic oral		information lable	No information available	No information available	No information available	No information available	_
Chronic dermal		information lable	No information available	No information available	No information available	No information available	-
Chronic inhalation		information lable	No information available	No information available	No information available	No information available	-



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Subacut	e oral	No information available			No information available	_		
Subacut	e dermal	No information available			No information available	-		
Subacut	e inhalation	No information available			No information available	-		
Subchro	ubchronic oral No information available				No information available	-		
Subchronic dermal No information available					No information available	-		
Subchronic inhalation No information available					No information available	-		
Chronic	oral	No information available			No information available	-		
Chronic	dermal	No information available			No information available	_		
Chronic inhalation No information availa					No information available	-		
	CMR effects (ca	arcinogenicity; mutagenicit	y; re	productive t	oxicity)			
	Carcinogenicity:			sed on availa	ble data, the classification o	criteria are not met.		
	Mutagenicity in vitro:			sed on availa	ble data, the classification o	criteria are not met.		
	Genotoxicity:		Bas	sed on availa	ble data, the classification o	criteria are not met.		
	Mutagenicity <i>ii</i>	ı vivo:	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.					
	Germ cell muta	genicity:						
	Reproductive t	oxicity:	Based on available data, the classification criteria are not met.					
	Summary of properties:	evaluation of the CI	MR	Based on a met.	vailable data, the classificat	ion criteria are not		
11.2.	Information on	other hazards:						
11.2.1.	Endocrine disru	upting properties:						
	Based on avai	lable data, does not cont uptors.	ain	-				
11.2.2.	Other informat	ions:						
	-							

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



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Crustacea: EC ₅₀ 4		EC ₅₀	48 hours	No information available	No information available	No informat available		-
Algae/aquatic p	Algae/aquatic plants IC ₅₀		4 days	No information available	No information available	No informat available		-
Other organism	other organisms		-	-	-	-		_
Chronic (long-to	erm)	Dose	Exposur time	e Species	Method	Evaluat	ion	Note
Fish	LC ₅₀ 96 hours			No information available	No information available	No informat available		-
Crustacea: EC ₅₀		48 hours	No information available	No information available	No informat available		_	
Algae/aquatic plants IC		IC ₅₀	72 hours	No information available	No information available	No informat available		_
Other organisms			-	-	-	-		-
				_				
12.2 Persist	ence a	nd degradab	oility					
Abiotic	degra	adation				:		
	De	gradation ha	alf-lives	Method	Evaluatio	Evaluation		Note
Marine water	No ir	nformation a	vailable	No information available	No information	No information available		
Fresh water	No ir	nformation a	vailable	No information available	No information	on -		
Air	No ir	nformation a	vailable	No information available	No information	on -		
Soil	No ir	nformation a	vailable	No information available	No information available	on -		
Biodeg	radatio	on						
% Degradation		Time (c	lays)	Method	Evaluatio	on		Note
No information available No information available		No information available	No information	on N	No inf	ormation		



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12.3	Bioaccumu	lative p	otential								
		•	tition coeffi	cient (log Kow)						
Value	e Cor	ncentrat	ion pl	1	°C	М	ethod	Evalu	ıation		Note
-	-		-	•	-	•		-		-	
		tration f	actor (BCF)			4 - 4		F l	•		Nists
No info	alue	No	Species inform	ation	No info	/lethoc		Evaluat No informat			Note
available		availab		ation	availab		71.1	available	1011	-	
	Chronic ec	otoxicit	y								
	Value Dose E		-	osure ime	Spe	ecies	Method	Eval	luation	Note	
Chronic	toxicity on	fish	LC ₅₀		formation information		No information	1	mation	-	
				available		availa	ıble	available	availa	ble	
	toxicity on ea (<i>Daphnia</i>))	EC ₅₀	No information available		No inforr availa	mation ıble	No information available	No inforr availa	mation able	-
			<u>i </u>		!		i		1		
12.4	Mobility in	soil									
	Known or p	oredicte	d distribution	on in e	environm	ental c	ompart	ments:			
	No informa	ation av	ailable								
	Surface ter	nsion:		-							
	Value		°C	C	oncentra	tion		Method			Note
	No information available	n info	No information available		informa [.] ilable	tion	No info	o information ailable		-	
	A 1										
	Adsorption	ı / deso	rption								



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Transpo	A/D coefficient Ort Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wa	ter Available	No informati on available	No information available	No information available	-
Water-a	Water-air No information available		No information available	No information available	-
Soil-air	No information available	No informati on available	No information available	No information available	-
12.5	Results of PBT and vPvB asse Based on available data, the		s not contain any PBT or	vPvB substances	
	based on available data, the	product doc	3 Hot contain any 1 51 of	vi va saastanees.	
12.6.	Endocrino dicrupting proper	tios			
12.0.	Endocrine disrupting proper Based on available data, doe		a and acrina disruptors		
	based off available data, doe	S HOL COITIAII	r endocrine disruptors.		
12.7.	Other adverse effects				
12.7.	No information available				
	140 IIIIOIIIIatioii available				
SECTIO	N 13. Disposal consideration	ns			
13.1	Waste treatment methods	<u></u>			
13.1.1.	Product/Packaging dispose	al:			
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.				and Nature
13.1.2.	Waste codes/waste designations according to Law:				
	15 01 10*: Packaging that contains residual hazardous substances or is contaminated with hazardous substances				d with hazardous
	Waste treatment – relevan	t information	1:		
13.1.3.					
13.1.3.	No information available				



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13.1.4.	Sewage disposal – relevan	t information:		
	Waste must not be dispos	ed of into the sewage system.		
13.1.5.	Other disposal recommen	dations:		
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.			
13.1.6.	Relevant Community prov	isions:		
	-			
SECTIO	N 14 TRANSPORT INFORM	ATION		
	Transporting/shipment by re	oad (ADR)		
UN num	nber:	Not subject to transport regulations		
UN prop	per shipping name:	-		
Transpo	rt hazard class(es):	-		
Packing	group:	-		
Environr	mentally hazardous:	-		
Special	precautions for user:	-		
	Transporting/shipment by ra	ail (RID)		
UN num	nber:	Not subject to transport regulations		
UN prop	per shipping name:	-		
Transpo	rt hazard class(es):	-		
Packing	group:	-		
Environr	mentally hazardous:	-		
Special	precautions for user:	-		
	Inland waterway transport (A	ADN)		
UN num	nber:	Not subject to transport regulations		
UN prop	per shipping name:	-		
Transpo	rt hazard class(es):	-		
Packing	group:	-		
Environr	mentally hazardous:	-		
Special	precautions for user:	-		
	Transporting/shipment by se	ea (IMDG)		
UN num	nber:	Not subject to transport regulations		
UN prop	per shipping name:	-		
Transpo	rt hazard class(es):	-		



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

SECTI	ON 15. Regulatory in	formation
15.1	Safety, health and e	nvironmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/o	or restrictions of use
	Authorizations:	-
	Restrictions:	-



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Trading name:		ACETIC ACID, 0.5%	0.5% SOLUTION		
Product code:	OK05-OT-X**	Date of compilation:	23 Dec 2022	Version:	3

		Regulation (EC) No 1907/2006 of the European Parliament and of the Council of
	Other EU regulations:	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 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 assessr	nent
	None	

SECTIO	SECTION 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			



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

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Trading name:		ACETIC ACID, 0.5% SOLUTION			
Product code:	OK05-OT-X**	Date of compilation:	23 Dec 2022	Version:	3

16.3.	1	literature references and rce of data:	-
16.4.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classifi	catior	1	Classification procedure
_			-
16.5.	Relevant H statements (number and full text)		
		226	Flammable liquid and vapour.
	H:	314	Causes severe skin burns and eye damage.
16.6.	Trai	ning advice:	-
			** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Furt	her information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario	resulting to	chemical sa	fety assessr	nent

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Trading name:	ALCIAN BLUE SOLUTION pH 2.5					
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

SECTI	ON 1: Identification of	the subst	ance/mixture a	nd of the company/undertaking	
1.1.	Product identifier				
	Trading name:	ALCIAN	N BLUE SOLUTIO	N pH 2.5	
	Chemical name:	-			
	Catalogue number:	AB2-O	T-X**		
1.2.	Relevant identified us	es of the :	substance or mix	ture and uses advised against	
	Uses:		For staining aci	d mucopolysaccharides of intestinal goblet cells.	
	Uses advised against:		Only the identi	fied uses are advised.	
	Reason why uses advi	sed	device, register	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes	
1.3.	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Supplier.		BioGnost Lta.		
	Address:		Medjugorska	59, Zagreb	
	Address:		Medjugorska	97	
	Address: Telephone number:	person:	Medjugorska +385 1 24099	97 39	
	Address: Telephone number: Fax no.:	person:	Medjugorska +385 1 24099 +385 1 24040	97 39	
1.4.	Address: Telephone number: Fax no.: e-mail of competent p		Medjugorska +385 1 24099 +385 1 24040 msds@biogno	97 39	
1.4.	Address: Telephone number: Fax no.: e-mail of competent p National contact:	number	Medjugorska +385 1 24099 +385 1 24040 msds@biogno	97 39	
1.4.	Address: Telephone number: Fax no.: e-mail of competent p National contact: Emergency telephone	number	Medjugorska +385 1 24099 +385 1 24040 msds@biogno	97 39 ost.hr	

SECTIO	CTION 2. Hazards identification						
2.1.	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:	ALCIAN BLUE	SOLUTION pH 2.5				
	Identification number:	Identification number: -					
	Authorization no.: -						
	Hazard pictograms:	-					



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Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 6	

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

SECTION 3. 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)			
64-19-7/ 200-580-7/ 607-002-00-6	-	≤ 3%	Acetic acid, 99.5%	Flam. Liq. 3; H226 Skin Corr. 1 A; H314			

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

SECTION	ON 5 Firefighting measures
5.1.	Extinguishing media



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Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 6	

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

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



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Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
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See Section 7 for information about secure handling.

See Section 8 for information about personal protective equipment.

See Section 13 for information about containment.

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

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



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Trading na	me:	ALCIAN BLUE SOLUTION pH 2.5								
Product co	de:	AB10-C)T-X**		Date o	f compila	tion:	21 De	c 2022	Version: 6
	•		1	·	ı				1	
-			-			-		-	No infor	mation available
Substance name:	-									
EC No:	_		CAS No:	-						
DNEL										
					Inc	lustrial				
Route of		A	Acute		Acut	e		Chro	nic	Chronic
exposure:		effe	ect local	e	ffect sys	temic		effect l	ocal	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
Critical phys	ical par	ameters: s	solubility, fla	ammab	ility, cor	rosivity:		-		
Consumer										
Route of			Acute	Acute		Chronic			Chronic	
exposure:		effe	ect local	e	ffect sys	temic	effect local		ocal	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal				-			-			-
PNEC										
Environmen	tal prote	ection tar	get			PNEC No information available				
Fresh water		_								
Freshwater s		its				No infor				
Marine wate						No information available				
Marine sedir	ments					No information available				
Food chain	icme in	50W2@2 ±=	oatmost			No information available				
Microorgani Soil (agricult		sewage tr	eaunent			No information available No information available				
Air	turai)					No information available No information available				
All						INO IIIIOII	Пацоп	avallab		
8.2.	Exposu	sure controls								
8.2.1.	•			ntrols						
	Appropriate engineering controls Substance/mixture related									
	measu	res to pre	Use the product in well ventilated equipment. Do not eat, drink or s				·			
	Structu		ures to preve	ent	No info	rmation av	/ailable	9		



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Trading name:	ALCIAN BLUE SOLUTION pH 2.5					
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 6		

	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prexposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equi	pment					
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection						
			tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374.				
	Hand protection:		Glove material: nitrile rubber				
		Glove thickness: ≥0.50 mm					
			Break through time: >480 min				
	Other skin protection:		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 prevent exposure:		See Section 6				

SECTI	SECTION 9. Physical and chemical properties						
9.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Colour:	blue	No information available				
	Odour/odour threshold:	acetic acid 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				



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Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 6	

	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	2.45 -2.55	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	Other information		
	-		

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

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



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Trading name:		ALCIAN BLUE SOLUTION pH 2.5					
Product code:	AB10-OT-X**	AB10-OT-X** Date of		tion: 21 D	ec 2022	Version: 6	
Inhalation exposure:	No informatio available	on -		LC ₅₀	-	-	
ехрозите.	avanasie						
Specific	c target organ toxicit	:y – single expo	osure (STOT SE)	:			
; •		ecific effects		Target orga	n	Note	
Oral exposure:	No informa	ation available	No infor	mation availa	ble -		
Dermal exposur	e: No informa	ation available	No infor	mation availa	ble -		
Inhalation expos	sure: No informa	ation available	No infor	mation availa	ble -		
	1		:		:		
Respira	tory irritation:	N	o information a	available			
Irritatio	n and corrosion						
	Exposure time	e Specie	es Ev	aluation	Method	Note	
Skin irritation:	-	-	-				
Eye irritation:	-	-	-				
Sensitiz	zation						
Dermal exposur	e: No information	available					
Inhalation	No information	availabla					
exposure:	NO IIIIOIIIIatioii	avaliable					
	oms related to the pl	-	al and toxicolog	gical characte	ristics		
Oral exposure:	No information	available					
Dermal exposur	e: No information	available					
Inhalation exposure:	No information	available					
Eye exposure:	No information	available					
Repeat	ed dose toxicity (sub	acute, subchro	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No information available	No information available	No information available	No informatio n available	No informat	ion -	
Subacute dermal	No information available	No information available	No information available	No informatio n available	No informat	ion ₋	



Chronic inhalation

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Trading name:	ALCIAN BLUE SOLUTION pH 2.5					
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version: 6		

Subacute inhalation	No i availa	nformation ble	No information available		rmation lable	No informatio n available	No infor		_
Subchronic oral	No i availa	nformation ble	No information available	No info	rmation lable	No informatio n available	No infor		-
Subchronic dermal	No i availa	nformation ble	No information available		rmation lable	No informatio n available	No infor		-
Subchronic inhalation	No i availa	nformation ble	No information available		rmation lable	No informatio n available	No infor		-
Chronic oral	No i availa	nformation ble	No information available		rmation lable	No informatio n available	No infor		-
Chronic dermal	No i availa	nformation ble	No information available		rmation lable	No informatio n available	No infor		-
Chronic inhalation	No i availa	nformation ble	No information available		rmation lable	No informatio n available	No infor		-
Specific	target		y – repeated e	xposu	ire (STOT I				
		•	cific effects			Target organ			Note
Subacute oral			tion available			mation availab		-	
Subacute dermal		<u> </u>	ition available		No information available			-	
Subacute inhalation No informa		No informa	tion available			mation availab		-	
Subchronic oral No informa		ition available			mation availab		-		
Subchronic derm	Subchronic dermal No informa					mation availab		-	
Subchronic inhal	ation	No informa	ition available		No infor	mation availab	le	-	
Chronic oral		No informa	tion available		No infor	mation availab	le	-	
Chronic dermal		No informa	ition available		No infor	mation availab	le	-	

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

No information available

No information available



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Trading name:	ALCIAN BLUE SOLUTION pH 2.5					
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

	Germ cell mutagenicity:	No information available
	Reproductive toxicity:	No information available
	Summary of evaluation of the C	MR properties: -
11.2	Information on other hazards:	
11.2.1.	Endocrine disrupting properties	
	The substance/mixture doccontain components consider have endocrine disrupting praccording to REACH Article Commission Delegated regulat 2017/2100 or Commission Re (EU) 2018/605 at levels of higher.	ered to roperties 57(f) or cion (EU) - gulation
11.2.2.	Other informations:	
	-	

SECTION 12. Ecological information

12.1. Toxicity

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



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Trading name:					ALCIAN BLUE SOLUTION pH 2.5						
Product code:		AB10-OT-X**			Date	of compila	tion:	21 Dec	2022	Version:	: 6
Algae/aquatic plants		IC ₅₀	72 hours		No information available			No information available		-	
Other organis	sms	-	-		-		-		-	-	
		e and degradal	oility								
Abio		gradation	c 1:			4 .1 .1			- ı .·		N
NA - vi	L	egradation hal	t-lives		<u> </u>	/lethod			Evaluatio	n	Note
Marine water	No	information av	information available N		o inforn	nation availa	able	No inform	ation ava	ailable	-
Fresh water	No	information av	ailable	No	o inforn	nation availa	able	No inform	ation ava	ailable	-
Air	No	information av	ailable	No	o inforn	nation availa	able	No inform	ation ava	ailable	-
Soil	No	information av	ailable	No	o inforn	nation availa	able	No inform	ation ava	ailable	-
	egrad										
% Degradation	_	Time (day			Method			Evaluation		Note No information	
No information available									available		
12.3. Bioa	ccumi	ulative potentia	ı								
Parti	tion c	oefficient: n-oc	tanol/v	vater (log Kov	v):					
Value	Cor	ncentration	рН	٥	С	Method		Evalua	ation	N	ote
-	No availa	information able	-	-		o informatio vailable	on	No inform available	ation	-	
										-	
	oncen	tration factor (BCF)				0 0 0 0 0 0 0				
Value		Species	a+i	Na !:	Met			Evaluati			ote
						No information available		No inform available	ation		

Chro	nic ec	otoxicity									



Endocrine disrupting properties

12.6.

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Trading name:	ALCIAN BLUE SOLUTION pH 2.5					
Product code:	AB10-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

	Vā	alue	Dose	Exposure time	Specie	s Method	l Evalua	ation	Note
Chron	ic toxi	city on fish	LC ₅₀	information	No informat available		nn i	No information available	
		city on aphnia)	EC ₅₀	information	No informat available	1	No informavailable		–
12.4.	Мо	bility in soi	I						
	Knc	own or pred	dicted distribut	ion in environme	ntal com	partments:			
	No	informatio	n available						
	Sur	face tensio	n:		T				
		Value	°C	Concentrati	on	on Method			
			No information available	No informati available	on _N	No information available		-	
Transp	i	-	desorption coefficient 's constant	log Kow	Eva	aporation rate	Method		Note
Soil-w	ater	No available	information	No information available	n No in availa	formation ble	No informatio available	n -	
Water-	-air	No available	information	No information available	n No in availa	formation ble	No informatio available	n -	
Soil-air No in available		information	No information available	on No information available		No informatio available	n -		
12.5.		ulte of DRT	and vPvB asses	ccment					



Trading name:

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	according		t contain components considered to have endocrine disrupting properties) or Commission Delegated regulation (EU) 2017/2100 or Commission els of 0.1% or higher.
12.7.	Other ad	verse effects	
	No inforr	mation available	
SECTION	ON 13. Dis _l	posal considerations	
13.1.	Waste	treatment methods	
13.1.1.		t/Packaging disposal:	
	Submit Protect		al person authorized by the Ministry of Environmental and Nature
13.1.2.		codes/waste designation	ons according to Law:
	No info	ormation available	
13.1.3.		treatment – relevant in	formation:
	No info	ormation available	
13.1.4.	C	a diamanah malamanah ind	farmantiana.
15.1.4.		e disposal – relevant inf	of into the sewage system.
	vvaste	must not be disposed t	of into the sewage system.
13.1.5.	Other o	disposal recommendati	ons:
	Do not authori the pac	dispose of the productive dispose of the productive dispose of the ministry in a	c's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. Submit is authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	. Relevar	nt Community provision	ns:
	-		
SECTION	ON 14. Tra	nsport information	
	•	ting/shipment by road	
UN nu			Not subject to transport regulations.
	oper shippii 		-
	ort hazard	class(es):	-
Packin	ig group:		



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Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	
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:	-
special precautions for user.	
Transporting/shipment by sea (IN	
Transporting/shipment by sea (IN	MDG)
Transporting/shipment by sea (IN UN number:	MDG) Not subject to transport regulations.
Transporting/shipment by sea (IN UN number: UN proper shipping name:	MDG) Not subject to transport regulations
Transporting/shipment by sea (IN UN number: UN proper shipping name: Transport hazard class(es):	MDG) Not subject to transport regulations. -
Transporting/shipment by sea (IN UN number: UN proper shipping name: Transport hazard class(es): Packing group:	MDG) Not subject to transport regulations.
Transporting/shipment by sea (IN UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:	MDG) Not subject to transport regulations.
Transporting/shipment by sea (IN UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user:	MDG) Not subject to transport regulations.
Transporting/shipment by sea (IN UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC	MDG) Not subject to transport regulations. AO-TI/IATA-DGR)
Transporting/shipment by sea (IN UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC UN number:	MDG) Not subject to transport regulations. Not Subject to transport regulations.
Transporting/shipment by sea (IN UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC UN number: UN proper shipping name:	MDG) Not subject to transport regulations. AO-TI/IATA-DGR) Not subject to transport regulations
Transporting/shipment by sea (IN UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC UN number: UN proper shipping name: Transport hazard class(es):	MDG) Not subject to transport regulations. Not Subject to transport regulations. Not subject to transport regulations
Transporting/shipment by sea (IN UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC UN number: UN proper shipping name: Transport hazard class(es): Packing group:	MDG) Not subject to transport regulations. MO-TI/IATA-DGR) Not subject to transport regulations
Transporting/shipment by sea (IN UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transporting/shipment by air (IC UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:	MDG) Not subject to transport regulations. MO-TI/IATA-DGR) Not subject to transport regulations

SECTION 15. Regulatory information

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



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

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



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16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classifi	ication	Classification procedure			
_		-			
16.5.	Relevant H statements (numb	per and full text)			
	H: 226	Flamamble liquid and vapour.			
	314	Causes severe skin burns and eye damage.			
16.6.	Training advice:	-			
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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Trading name:		L, SOLUTION			
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SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	ALKALINE A	ALCOHOL,	COHOL, SOLUTION		
	Chemical name:	-				
	Catalogue number:	ALA-OT-X*	*			
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against		
	Uses:		For use	with Movat kit.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advi	n why uses advised against: d		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 +385 1 2404039			
	Telefax.:					
	e-mail of competent	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection a	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance	e or mixture				
2.1.1	Classification according to Reg	gulation (EC) No 1272	2/2008 (CLP)			
	Hazard class and cate	egory code:	Hazard statements*:			
	Flam. Liq. 2		H225			
	Skin Irr. 2		H315			
	Eye Irr. 2		H319			
2.1.2.	Additional information					
	-	-				
*For fu	ll text of Hazard- and EU Hazard	l-statements: see SEC	TION 16			
2.2	Label elements					
	Product identification:	Product identification: ALKALINE ALCOHOL, SOLUTION				
	Identification number:	dentification number: -				



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	Authorization number:	-			
	Hazard pictograms:	GHS02 GHS07			
	Signal word:	Danger			
	Hazard statements:	H225 Highly flammable liquid and vapor H315 Causes skin irritation. H319 Causes serious eye irritation.			
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor. 			
	Supplemetal hazard information (EU):	-			
2.3	Other hazards				
	Endocrine Disrupting Prope	Endocrine Disrupting Properties:			
	No known endocrine disrupting properties				
	Results of PBT and vPvB as PBT or a vPvB.	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.			

SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- xxxx	70 - 90 %	ethanol	Flam. Liq. 2; H225			
1336-21-6/ 215-647-6/ 007-001-01-2	-	9 - 10 %	ammonia	Skin Corr. 1B; H314 Aquatic Acute 1; H400			

SECTION 4. First aid measures



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4.1	Description of first aid measures	Description of first aid measures					
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.					
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.					
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptom 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 effects, both acute and delayed						
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.					
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.					
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.					
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.					
4.3	Indication of any improdicts modi	cal attention and special treatment needed					

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable outinguishing modia	Small fire - water spray, dry powder, CO ₂			
	Suitable extinguishing media:	Large fire - water spray or alcohol resistant foam			
	Unsuitable extinguishing media: Water with full jet				
5.2	Special hazards arising from the su	ubstance or mixture			
	Hazardous combustion products:	Formation of toxic gases is possible during heating or in case of fire.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit o	compressed air breathing apparatus and fireproof clothing.			



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5.4	Additional information
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.

SECTIO	ON 6. Accidental release measur	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. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).			
6.2	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for conta	inment 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:	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 or	n safe handling.		
	See Section 8 for information or	n personal protection equipment.		
	See Section 13 for disposal info	rmation.		

SECTION	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 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. The	roughly wash hands after work and before eating.			
7.2	Conditions for safe storage, including any incom	patibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).			
7.3	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			

SECTION 8. Exposure controls/personal protection						
8.1 Control parameters						
Substance	CAS No	•	exposure limit t term values		Biological limit values	
		ppm	mg/m³		-	
Ethanol	64-17-5	1000/-	1900/-	-		
Ammonia	1336-21-6	20/50	14/36	-		
Substance name: -						



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Product code	: ALA-O	ALA-OT-X** Revis		on date: 22 Dec 2022			2	Version:	
EC No:	-	CAS No:	_						
DNEL	<u> </u>	CAS NO.	<u> </u>						
DIVLE			In	dustri	ial				
Route of	A	cute	Acute		Chronic			Chronic	
exposure:	effe	ct local	effect system	mic	ef	fect local			
Oral	-		-		-		-		
Inhalation	1900 mg (ethanol		-		-		380 mg/	/m³ (ethanol)	
Dermal	-		-		-		343 mg/	/kg (ethanol)	
Critical physical parameters: solubility, flammability				rrosivi	ity:	-			
			Co	nsum	er				
Route of Acute		Acute			Chronic		Chronic		
exposure:	ette	ct local	effect systemic effect local			ffect systemic			
Oral	950 mg	1/m ³	<u> </u> -		-		87 mg/k	87 mg/kg bw/day (ethano	
Inhalation	(ethano		-	-			114 mg/	/m³ (ethanol)	
Dermal	-		-	- 206 mg/kg (ethanol)		/kg (ethanol)			
PNEC									
Environmental	protection ta	rget		PNE	С				
Fresh water				0.96 mg/l (ethanol)					
Freshwater sed	iments			3.6 mg/kg (ethanol)					
Marine water				0.79	mg/l (etl	nanol)			
Marine sedime	nts			2.9 mg/kg (ethanol)					
Food chain				380-720 mg/kg (ethanol)					
Microorganism		reatment		500 mg/l (ethanol)					
Soil (agricultura	al)			0.63 mg/kg (ethanol)					
Air				no ir	ntormatic	on available			
8.2 Ex	posure contro	ols							
			ontrols						
Su	prevent exposure during identified uses.		prot	•			ns. Use persona k or smoke in tl		
	ructural meas posure:	ures to pre	vent	In accordance with Section 7.					



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			·				
	Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent ex	cposure:	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	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:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374 Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min					
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover t entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemic (Viton, PVC, himex) and footwear made from the same material.					
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No info	ormation available				
8.2.3.	Environmental exposure controls						
	Substance/mixture related measures to prevent exposure:	See Se	ction 6				
	Structural measures to prevent exposure:	Use m	odern equipment.				
	Organisational measures to prevent exposure:	•	apt the work process to the required working conditions of the kplace.				
	Technical measures to prevent exposure:	See Se	Section 6				

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



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	Odour/odour threshold:	mild ammonia like/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	19°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
2	Other information		

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



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10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
10.5	Incompatible materials:	No further relevant information available.
10.6	Hazardous decomposition products:	No dangerous decompostion products known.

11.1 Informa	ation on toxi	cological effects						
Acute t	oxicity:	-						
Route of exposure:	Meth	od Speci	es	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure time		Results
Oral:	-	rat		LD ₅₀		-		7.060 mg/kg (ethanol)
Dermal:	-	rabb	it	_		_		>20.000 mg/ (ethanol)
Inhalation:	-	rat		LC ₅₀		4 h		>8.000 mg/l (ethanol)
				(57.57.65)				
Specific	target orga	n toxicity – single	•	(STOT SE):	.			.
		Specific effects		Target organ			Note	
Oral:		ormation available		No information available			-	
Dermal:		ormation available		No information available			-	
Inhalation:	No into	ormation available		No information available			-	
Aspirat	ion hazard:		No inf	ormation ava	ailable.			
Irritatio	n and corro	sion						
		Exposure time	Sp	ecies	Evaluation	Method		Note
Skin corrosion/irritat	ion:		-	_			-	
Serious eye damage/irritatio	n -		-	-		-	-	
Sensitiz	ration							
Skin sensitizatio		No information	availahle					
Respiratory sens		No information						



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Oral exposure:		No informati	on available.				
Dermal exposure	:	No informati	on available.				
Inhalation exposure: No information available.							
Eye exposure:		No informati	on available.				
Repeate	ed dos	e toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No avail	information able	No information available	No information available	No informatio n available	No informatio available	n -
Subacute dermal	No avail	information able	No information available	No information available	No informatio n available	No informatio available	n -
Subacute inhalation	No avail	information able	No information available	No information available	No informatio n available	No informatio available	n _
Subchronic oral	No avail	information able	No information available	No information available	No informatio n available	No informatio	n _
Subchronic dermal	No avail	information able	No information available	No information available	No informatio n available	No informatio available	n _
Subchronic inhalation	No avail	information able	No information available	No information available	No informatio n available	No informatio available	n _
Chronic oral	No avail	information able	No information available	No information available	No informatio n available	No informatio available	n _
Chronic dermal	No avail	information able	No information available	No information available	No informatio n available	No informatio	n _
Chronic inhalation	hronic No information in		No information available	No information available	No informatio n available	No informatio available	ın -
Specific	target	organ toxicit	y – repeated e	xposure (STOT RE	E):		
			Specific effec	ets	Target or	gan	Note
Subacute oral		No informa	tion available		No information	available -	
Subacute derma		No informa	tion available		No information	available -	



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Trading name:		ALKALINE ALCOP	IOL, SOLUTION	- g	
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3

Subacu	Subacute inhalation No information available			No information available	-		
Subchronic oral No information availa		No information available		No information available	-		
Subchro	Subchronic dermal No information available			No information available	-		
Subchro	onic inhalation	No information available		No information available	-		
Chronic	oral	No information available		No information available	-		
Chronic	dermal	No information available		No information available	_		
Chronic	inhalation	No information available		No information available	-		
	CMR effects (c	arcinogenicity; mutagenicit	ty; reproductive	toxicity)			
	Carcinogenicity:		Based on avai	lable data, the classification c	riteria are not met.		
	Mutagenicity in vitro:		Based on available data, the classification criteria are not met.				
	Genotoxicity:		Based on available data, the classification criteria are not met.				
	Mutagenicity i	n vivo:	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
	Germ cell mut	agenicity:					
	Reproductive t	toxicity:	Based on available data, the classification criteria are not met.				
	·						
	Summary of properties:						
11.2	Information on other hazards: Endocrine disrupting properties:						
11.2.1.							
	No known en that affect hun	docrine disrupting proper	ties				
11.2.2.	Other informa	tions:	1				
	-						

SECTION 12. Ecological information						
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Lepomis macrochirus (Bluegill sunfish)	No information available	8.140 mg/l /48 h (ethanol)	-
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-



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Trading name:		ALKALINE ALCOH	HOL, SOLUTION	_	
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3

Algae/aquatic	plants	IC ₅₀	4 days		Pseudokirchner iella subcapitata (green algae)	No information available	5.0	00 mg/l / 7d (ethanol)	-
Other organis	ms	-	-	-	-	-	-		_
Chronic (long- toxicity	-term)	Dose	Exposur time	е	Species	Method		Evaluation	Note
Fish		LC ₅₀	96 hours	: :	No information available	No information available	1	information ilable	-
Crustacea:		EC ₅₀	48 hours	:	No information available	No information available		information ilable	-
Algae/aquatic	plants	IC ₅₀	72 hours	•	No information available	No information available		information ilable	-
Other organis	ms	-	-		·		_		-
Abio		adation egradation h	alf-lives		Method	Evaluation		Not	e
	tic degr		•		Method	Evaluation		Not	Δ
Marine water	No i	nformation a	available	No information available No information		No information available No information		-	
Fresh water	No i	nformation a	available		ilable	available		-	
Air	No i	nformation a	available		information ilable	No information available		-	
Soil	No i	nformation a	available		information ilable	No information available		-	
Biode	egradati	ion							
% Degradat	ion	Time (c	lays)		Method	Evaluation		Not	e
No informatic		No in available	formation		information ilable	No information available		No information	on
12.3 Bioad	ccumula	itive potentia	al						
		er partition o	coefficient (ow)				
Value	Conce	entration	рН	°C	Method	Evaluat	ion	No	ote



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Trading name:				ALKALINE ALCOHOL, SOLUTION							
Produ	ıct code:	ALA	-OT-X**	Revis	Revision date:		22 D	ec 2022)	Version:	
	Biocono	centratio	n factor (BCF)								
,	Value		Species	N	Лethc	od		Evalu	ation		Note
No info	ormation ole	No avail	informat able	ion No infor available		on	No ir	nformati	on available	-	
	Chronic	ecotoxi	city								
	Value		Dose	Exposure time	S	Species	Me	ethod	Evaluatio	n	Note
Chroni	Chronic toxicity on fish LC ₅₀		LC ₅₀			ormation iilable	No infor avail	mation able	No information available	on -	
	Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No No information available available		ormation		No formation information ailable available		on -	
12.4	Mobilit	y in soil	i	·	:		·		:	·	
			cted distribution	n in environme	ental o	compartm	ents:				
	No info	rmation	available								
	Surface	tension:									
	Valu	re	°C	Concentrat	ion	-	Metho	od		Note	
	No informa availabl	ation i	No nformation available	No informati available	ion	No infor		n	-		
	Adsorp	tion / de	sorption								
Transp		A/D c	oefficient s constant	log Kow	E	vaporation	n rate	<u> </u>	Method		Note
Soil-water			ation available	No information available		o informat vailable	tion	No info	ormation lle	-	



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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	-
1 - 1	Results of PBT and vPvB assessr Based on available data, the pro		contain any DRT or	vPvP substances	
	based on available data, the pro	duct does not	Contain any FBT OF	vr vb substances.	
12.6. E	Endocrine disrupting properties				
	Based on available data, does n		ocrine disruntors		
•	Jusea off available data, abes fr	or correin chac	Jenne disruptors.		
12.7.	Other adverse effects				
١	No further relevant information	available.			
3					
SECTION	13. Disposal considerations				
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposal:				
	Submit for disposal to the leg Protection.	al person autho	orized by the Minist	ry of Environmental a	nd Nature
13.1.2.	Waste codes/waste designation				
	Packaging that contains resid	ual hazardous s	ubstances or is con	taminated with hazar	dous substances
13.1.3.	Waste treatment – relevant in	formation:			
13.1.3.	No information available	ioimation.			
13.1.4.	Sewage disposal – relevant in	formation:			
	Waste must not be disposed of into the sewage system.				
13.1.5.	Other disposal recommendati	ons:			
	Do not dispose of the produc authorized by the ministry in the packaging to the collector	charge. Do not	dispose of the pack	aging into the sewag	
13.1.6. Relevant Community provisions:					



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Disposal must be made accord	ing to official regulations.
SECTION 14 TRANSPORT INFORMATIO	N .
Transporting/shipment by road (ADR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
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:	II
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:	II
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:	II
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



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Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTI	ON 15. Regulatory information			
15.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture		
	EU regulations Authorization and/or restrictions of use			
	Authorizations:	-		
	Restrictions:	-		
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).		
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);		
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act		



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15.2	Chemical safety assessment
	None

	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 used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classif	ication	Classification procedure		
-		-		
16.5.	Relevant H statements (number	er and full text)		
	225	Highly flammable liquid and vapor.		
	314	Causes severe skin burns and eye damage.		
	H: 315	Causes skin irritation.		
	319	Causes serious eye irritation.		
	400	Very toxic to aquatic life.		
16.6.	Training advice:	-		
		** "X" in the product code marks different volumes (different packagings of the product)		
16.7.		We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTI	ON 1: Identification of	the substa	ance/mixture a	and of the company/undertaking
1.1.	Product identifier			
	Trading name:	BIEBRIC	H SCARLET-ACI	D FUCHSIN REAGENT
	Chemical name:	-		
Ì	Catalogue number:	BSAF-O	T-X**	
1.2.	Relevant identified us	es of the s	ubstance or mix	cture and uses advised against
	Uses:		For use with	special staining kits.
	Uses advised against:		Only the ider	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
	Address:		Medjugorska	97
	Address: Telephone number:	person:	Medjugorska +385 1 24099	97 39
	Address: Telephone number: Fax no.:	person:	Medjugorska +385 1 24099 +385 1 24040	97 39
1.4.	Address: Telephone number: Fax no.: e-mail of competent p		Medjugorska +385 1 24099 +385 1 24040 msds@biogno	97 39
1.4.	Address: Telephone number: Fax no.: e-mail of competent positional contact:	number	Medjugorska +385 1 24099 +385 1 24040 msds@biogno	97 39
1.4.	Address: Telephone number: Fax no.: e-mail of competent positional contact: Emergency telephone	number	Medjugorska +385 1 24099 +385 1 24040 msds@biogno	97 98 98 98 98 98 98

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard statements*:					
	Not identified as hazardous substa	nce.	-			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-state	ements: see S	ection 16			
2.2.	Label elements					
	Product identification:	BIEBRICH SCA	ARLET-ACID FUCHSIN REAGENT			
	Identification number:	_				
	Authorization no.:	_				
	Hazard pictograms:	-				



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Trading name:	BI	EBRICH SCARLET-ACID I	RICH SCARLET-ACID FUCHSIN REAGENT	
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

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

SECTIO	TION 4. First aid measures				
4.1.	Description of first aid meas	ures			
	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 a	ider:	Treat symptomatically.		
4.2.	Most important symptoms a	and eff	ects, both acute and delayed		
	Following inhalation:	No i	nformation available		
	Following skin contact:	No i	nformation available		
	Following eye contact:	No i	nformation available		
	Following ingestion:	No i	No information available		
4.3.	Indication of any immediate	medio	cal attention and special treatment needed		
	-				

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



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Trading name:	BIEB	Г		
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	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, Protection and Rescue Direct	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.		
6.3.	Methods and material for cor	ntainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	_		
6.4.	Reference to other sections			
	See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment.			
	See Section 13 for information about containment.			



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Trading name:	BIEE	T		
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

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



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EC No:	-		CAS No:	-					
DNEL									
Industrial									
Route of		А	cute	A	Acut	e	Chro	nic	Chronic
exposure:	exposure: effect local e		effect	t sys	temic	effect l	ocal	effect systemic	
Oral		-		_			-		-
Inhalation		-		-			-		-
Dermal		-		-					-
Critical phy	sical parar	meters: s	olubility, fla	ammability,	cor	rosivity:	-		
					Co	nsumer			
Route of		А	cute	A	Acut	e	Chro	nic	Chronic
exposure:		effe	ct local	effect	t sys	temic	effect l	ocal	effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
PNEC									
Environmer	ntal protec	ction targ	jet		PNEC				
Fresh water	•				No information available				
Freshwater	sediments	S			No information available				
Marine wat	er				No information available				
Marine sed	iments					No infor	mation availabl	е	
Food chain						No infor	mation availabl	е	
Microorgan	nisms in se	wage tre	atment		No information available				
Soil (agricu	ltural)				No information available				
Air						No infor	mation availabl	е	
8.2.	Exposure	e control	S						
8.2.1.	Appropr	iate engi	neering co	ntrols					
Substance/mixture related measures to prevent exposure		ire :	Use the product in well ventilated rooms. Use personal protective						
	during identified uses:		equ	equipment. Do not eat, drink or smoke in the workspace.			e workspace.		
	Structural measures to prevent exposure:			ent No	No information available				
					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.				



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Trading name:	BIE	Г		
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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:		ective gloves must be according to the EU Directive 2016/425/EEC and dard EN 374. Glove material: nitrile rubber		
			Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	formation available		
8.2.3.	Environmental exposure	controls			
	Substance/mixture relate measures to prevent expe		See Section 6		
	Structural measures to prevent exposure:		Use modern equipment.		
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.		
	Technical measures to prevent exposure:		See Section 6		

SECTI	SECTION 9. Physical and chemical properties					
9.1.	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	red	No information available			
	Odour/odour threshold:	No information available	No information available			
	Melting point / freezing point:	No information available	No information available			
	Boiling point or initial boiling point and boiling range:	No information available	No information available			
	Flammability:	No information available	No information available			
	Lover and upper explosion limit:	No information available	No information available			
	Flash point:	No information available	No information available			
	Auto-ignition temperature:	No information available	No information available			



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT					
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

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

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

SECTION 11. Toxi	cological information				
11.1. Information	on on toxicological effec	cts			
Acute tox	icity:				
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	-
Specific ta	arget organ toxicity – sir	ngle exposure (S	STOT SE):		
	Specific e	ffects	Target orgai	n	Note



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT					
Product code: BSAF-OT-X**		Date	of compilation:	Version: 4		
Oral exposure: No information available			No informati		-	
Dermal exposure:		ion available	No informati		-	
Inhalation exposure: No information available		ion available	No informati	on available	-	
Respirator	y irritation:	No i	nformation availa	ble		
Irritation a	and corrosion					
intation	Exposure time	Species	Evaluat	ion Method	d Note	
Skin irritation:	-	- Species	- Evaluat	-	-	
Eye irritation:	_					
Sensitizati						
Dermal exposure:	No information a	available				
Inhalation exposure:	No information a	available				
	s related to the phy		and toxicological	characteristics		
Oral exposure:	No information a	vailable				
Dermal exposure:	No information a	vailable				
Inhalation exposure:	No information a	vailable				
Eye exposure:	No information a	vailable				
Repeated	dose toxicity (suba	cute, subchroni	c, chronic)			
	Dose	Evnosure		ethod Evaluati	on Note	

No

No

No

No

information

information

information

information

available

available

available

available

No information

No information

No information

No information

available

available

available

available

Subacute oral

Subacute

Subacute

inhalation

Subchronic oral

dermal

No

No

No

No

information

information

information

information

available

available

available

available

No

No

No

No

informatio

n available

informatio

n available

informatio

n available

informatio

n available

No information

No information

No information

No information

available

available

available

available



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			·	· y · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· •		
Subchronic dermal	No availa	information able	No information available	No informa availabl		No informatio n available	No infor		-
Subchronic No information nhalation available		No information available			No informatio n available	No information available		-	
Chronic oral	No availa	information able	No information available	No informa availabl		No informatio n available	No infor		-
Chronic derr	nal No availa	information able	No information available	No informa availabl		No informatio n available	No infor		-
Chronic inhalation	No availa	information able	No information available	No informa availabl		No informatio n available	No infor		-
Spe	cific target	1	y – repeated e	xposure (
•		cific effects			Target organ			Note	
Subacute ora			ntion available			mation available -			
Subacute dermal No information					nation availab		-		
Subacute inh			ition available			nation availab		-	
Subchronic o			ition available			nation availab		-	
Subchronic			tion available			nation availab		-	
Subchronic i	nnalation		tion available			nation availab		-	
Chronic oral			ation available			nation availab		-	
Chronic inha			ation available	No information available No information available			-		
Chronic mina	ilation	INO IIIIOIIIIe	ition available	INC	0 1111011	nation availab			
CM	R effects (c	arcinogenicit	y, mutagenicity	y, reprodu	uctive t	oxicity)			
	cinogenicit		, , ,	rmation a					
Mutagenicity <i>in-vitro</i> :		No info	No information available						
Genotoxicity:		No info	rmation a	availabl	e				
Mutagenicity in-vivo:		No info	rmation a	availabl	e				
Germ cell mutagenicity:		No info	rmation a	availabl	e				
Ger	m cell muta								



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
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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:
	-

12.1.	Toxicity	

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

12.2. Persistence and degradability



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT			
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Abio	tic degrada	ition								
	Degrad	dation half-li	ves		Method			Evaluatio	n	Note
Marine water	No infor	mation availa	able	No info	ormation availab	ole	No information available		ilable	-
Fresh water	No infor	mation availa	able	No info	No information available		No inform	nation ava	ilable	-
Air	No infor	mation availa	able	No info	ormation availab	ole	No inform	nation ava	ilable	-
Soil	No infor	mation availa	able	No info	ormation availab	ole	No inform	nation ava	ilable	-
Rind	egradation									
% Degradation		Time (days)		N	1ethod	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Evaluatio	n	N	lote
No information		informa	tion	No inforr	mation		o information		No informa available	ation
12.3. Bioa	ccumulative	e potential								
Parti	tion coeffic	ient: n-octar	nol/w	ater (log K	low):					
Value	Concent	ration	рН	°C	Method		Evalua	ation		Note
-	No info	rmation -		-	No information available	1	No inform available	nation	-	
Bioco	oncentratio	n factor (BCI	=)							
Value		Species	,	N	/lethod		Evaluat	ion		Note
No information	No information No information		tion				No information available		No information available	
Chro	nic ecotoxi	city								
Val		Dose	E	Exposure time	Species		Method	Evalu	uation	Note
Chronic toxici	, , , , , , , , , , , , , , , , , , , ,			No information available	1	o formation railable	No info availabl		_	
Chronic toxici	ty on	EC ₅₀	No	D	No	No	D	No info	rmation	_



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT			
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crustac	cea (D	aphnia)		1	ormation ilable	infor	mation able	information available	available	
12.4.	Мо	bility in so	il							
	Knc	wn or pre	dicted distributi	on in	environm	ental o	compart	ments:		
	No	informatio	on available							
	Sur	face tensio	on:							
		Value	°C		Concentra	ation		Method		Note
	No information available		No informati available	on	No informatio available	mation No information av		ormation ava	ilable	-
	Ads	orption /	desorption							
Transp		A/D	coefficient /'s constant		log Kow Evaporation rate		ation rate	Method	Note	
Soil-wa	No information		No information available			No information available		No information available	1 -	
Water-	er-air No information available		No information available			No information available		No information available	1 -	
Soil-air	•	No available	information	No information available			No information available		No information available	ı -
12.5.	Res	ults of PB7	Γ and vPvB asses	ssmei	nt					
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.									
12.6.			rupting properti							
	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.									
	, ,	<u> </u>								
12.7.	Oth	er adverse	e effects							
	No	No information available								



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
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SECTIO	N 13. Disposal considerat				
13.1.	Waste treatment method	ds			
13.1.1.	Product/Packaging dispo	osal:			
	9 9 1	ne legal person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste designations according to Law:				
	No information available				
13.1.3.	Waste treatment – releva				
	No information available				
13.1.4.	Sewage disposal – releva	ant information:			
	Waste must not be dispo	sed of into the sewage system.			
	•				
13.1.5.	Other disposal recomme	endations:			
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Do not dispose of in places where			
13.1.6.	Relevant Community pro	ovisions:			
	-				
SECTIO	N 14. Transport informati	on			
	Transporting/shipment by	road (ADR)			
UN num	nber:	Not subject to transport regulations.			
UN prop	per shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			
Environmentally hazardous:		-			
Special p	precautions for user:	-			
	Transporting/shipment by	rail (RID)			
UN num	ıber:	Not subject to transport regulations.			
UN pror	per shipping name:	-			



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

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 (I	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	CAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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



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	None	
15.2.	Chemical safety assessme	ent
	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
	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation 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 or 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);

SECTIO	SECTION 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				



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

ANNEX:

Exposure scenario resulting to Chemical safety assessment



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Trade name:	FERRI REAGENT, VERHOEFF B				
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3

1.1.	Product identifier				
	Trading name:	FERRI REAGENT, VERHOEFF B			
	Chemical name:	-			
	Product code:	FRV-OT-	-X**		
1.2.	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:			For use wi	ith special staining kits.
	Uses advised against:			Only the i	dentified uses are advised.
	Reason why uses advised against: med		The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnos	Gnost Ltd.	
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax:		+385 1 2404039		
	e-mail of competent person:		msds@b	msds@biognost.hr	
	National contact:				
1.4.	Emergency telephone numbers				
	National Protection and Rescue Direct		e Director	rate:	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 R	Classification according to Regulation (EC) No 1272/2008 (CLP)			
	Hazard class and cate	egory code:		Hazard statement*:	
	Skin Irr. 2		H315		
	Eye Irr. 2		H319		
2.1.2.	Additional information				
	-				
*For the	e full text of H and EUH phrase	s see Section 16.			
2.2.	Label elements				
	Product identification: FERRI REAGENT, VERHOEFF B				
	Identification number:	-			
	Authorisation number:	-			



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Trade name:	FERRI REAGENT, VERHOEFF B				
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation.
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
		ting properties. tains no components considered to be either persistent, bioaccumulative istent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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)		
10025-77-1/ 600-047-2/ -	-	9 – 10 %	ferric chloride hexahydrate	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 3; H412		

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid me	easures			
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.			
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.			
	Following skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.			



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Trade name:	FERRI REAGENT, VERHOEFF B				
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	Following eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs and persists: Get medical advice.
	Following ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.
	Self-protection of the first aider	-
4.2.	Most important symptom	ns and effects, both acute and delayed
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
	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 immedia	ate medical attention and special treatment needed
	Treat symptomatically.	

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.			
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.			
5.2.	Special hazards arising from the su	ubstance or mixture			
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).			
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				
	Heating may cause container cracking due to increase in pressure. Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.				

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



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Trade name:	FERRI REAGENT, VERHOEFF B						
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3		

	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:						
	Use protective equipment; in (see Section 8).	case of inadequate ventilation use adequate airways protective equipment					
6.2.	Environmental precautions:	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.						
6.3.	Methods and materials for containment and cleaning up						
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.					
6.3.2.	Cleaning up: After removing the product, use water to wash the work space and used materials.						
6.3.3.	Other information:	ther information: No information available.					
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:		Use in well ventilated storage rooms. Refer to the manufacturer's recommendations.			
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.			
	Measures to protect the environment:	easures to protect the environment:				
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.				
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	rooms and vessels: Keep away from food and drink. Keep the containers tightly closed.				



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Trade name:		FERRI REAGENT, VERHOEFF B					
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	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	N 8. EXPOSURE CONTROLS / PERSONAL PROTE	ECTION
8.1.	Control parameters	

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		
-			-	-			-		-
Substance: -	-		T	¥ 1					
EC No: -	•		CAS No:	_					
DNEL									
					Industrial				
Davita of average		Acute effect		Acute effect			Chronic effect		Chronic effect
Route of exposur	re:	local		systemic			local		systemic
Oral		-		ı		-			-
Inhalation		-		-		-	<u> </u>		-
Dermal -		-		-		-	_		-
Critical physical parameters: solubility, flammability, co					ity, corrosivity	/ :	-		
					Consume	r			
D		Acute effect Acu		ute effect		Chronic effect		Chronic effect	
Route of exposure:		I	local s		ystemic local			systemic	
Oral -		-		-		-			-
Inhalation		-				-			-
Dermal				-			-		
PNEC									
Environmental pr	rotec	tion ta	rget		PNEC				



Fresh water

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No information available

Freshwater sediments			No information available			
Marine w	ater		No information available			
Marine se	ediments		No information available			
Food chain			No information available			
Microorg	anisms in sewage treatment		No information available			
Soil (agrid	cultural)		No information available			
Air			No information available			
8.2.	Exposure controls					
8.2.1.	Appropriate engineering controls	•				
	Substance/mixture related measure to prevent exposure during ident uses:	ified	Ise personal protective equipment. Do not eat, drink or moke in the workspace.			
	Structural measures to prevent exposure:	١	lo information available			
	Organisational measures to preve exposure:		Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equipment:					
8.2.2.1.	Eye and face protection:		Safety glasses tested and approved under appropriate standards such as EN 166(EU).			
8.2.2.2.	Skin protection:					
	Hand protection:	p	landle with chemical resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from the standard EN 374 derived f			
	Other skin protection:	١	lo specific protective equipment required.			
8.2.2.3.	Respiratory protection:		Ise when overexposure potential. Improper use of espirators is dangerous.			
8.2.2.4.	Thermal hazards:	١	lo information available			
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Sec	ction 6			
	Structural measures to prevent exposure:	Use mo	dern equipment.			
	Organisational measures to prevent exposure:	Adapt t workpla	he work process to the required working conditions of the ace.			



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Trade name:	FERRI REAGENT, VERHOEFF B						
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3		

Technical measures to prevent	See Section 6
exposure:	See Seedion 0

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

SECTION 10. Stability and reactivity						
10.1.	Reactivity:	Not reactive under normal conditions.				
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).				
10.3.	Possibility of hazardous reactions:	No information available.				



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Trade name:	FERRI REAGENT, VERHOEFF B						
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3		

10.4.	Conditions to avoid:	Contact with incompatible materials and temperature extremes.
10.5.	Incompatible materials:	Strong oxidizers.
10.6.	Hazardous decomposition products:	Does not decompose under normal conditions. During fire, thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (as asphyxiant as sufficient concentrations).

11.1.	Informa	ition on toxic	ological effe	ects						
	Acute to	oxicity:								
Route of exposure:		Meth	nod	Sp	ecies			Exposure time		Results
Oral:		No infor availa			-	N inform avail	nation	-		-
Dermal	•	No infor availa			-	N inform avail	nation	-		-
Inhalati	on:	No infor availa			-	No information available		-		-
	Specific	target orgai	n toxicity - s	inale e	xposure (STC	OT-SF):				
	- Positive	9-1-9-1		fic effe			Targe	et organ		Note
Oral:		No inform	nation availa				-		-	
Dermal	•	No inform	nation availa	ble			-		-	
Inhalati	on:	No inform	nation availa	ble			-		-	
	Aspirat	ion hazard:			-					
	Irritatio	n and corros			T .					
			Exposure ti		Species		Evaluati	on N	Method	Note
Skin corrosion/irritation: No information available				nation	rabbit	-		-		mild skin irritation
Serious irritation to eyes: No information available										



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Trade name:	FERRI REAGENT, VERHOEFF B						
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Sensi	tization						
Skin sensitizatio	on:	No inform	nation available.				
Respiratory sensitization:		No inform	nation available.				
Symp	toms rela	ated to ph	ysical, chemical	, and toxicologic	al properties		
Oral exposure:		No kno	own specific syn	nptoms.			
Dermal exposur	re:	No kno	own specific syn	nptoms. May ca	use skin irritatior	ı.	
Inhalation expo	sure:	No kno	own specific syn	nptoms.			
Eye exposure:		No kno	own specific syn	nptoms. May ca	use mild eye irrit	ation.	
Repea	ated dose	e toxicity (subacute, subch	nronic, chronic)			
	D	ose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available		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	No information available
Subacute inhalation	No information available		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	No information available
Subchronic dermal	No information available		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	No information available
Chronic oral	al No information available		No information available	No information available	No information available	No information available	No information available
Chronic dermal	No info	ormation ble	No information available	No information available	No information available	No information available	No information available



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Trade name:	FERRI REAGENT, VERHOEFF B						
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version: 3			

Chronic inhalation	No information available	No information available	No informatio available	on	No information available	No informatio available	No n information available	
Spe	ecific target organ to	xicity - repeated	d exposure (STOT	-RE):			
		Specific ef	fects		Target org	jan	Note	
Subacute ora	ıl n	lo information a	available	No	information ava	ailable	No information available	
Subacute der	rmal N	lo information a	available	No	information ava	ailable	No information available	
Subacute inh	alation N	lo information a	available	No	information ava	ailable	No information available	
Subchronic o	ral N	lo information a	available	No	information ava	ailable	No information available	
Subchronic d	ermal N	lo information a	available	No	information ava	ailable	No information available	
Subchronic ir	nhalation N	No information available No information available			No information available No information available		No information available No information available	
Chronic oral	١							
Chronic derm	nal N	lo information a	available	No	No information available		No information available	
Chronic inhal	ation N	No information available		No information available		ailable	No information available	
CM	IR effects (carcinoge	nicity, mutageni	city, reprodu	ıctive	toxicity)			
	rcinogenicity:	- 1,7,				e classificatio	on criteria are not	
Mu	itagenicity <i>in-vitro</i> :		Based met.	Based on available data, the classification criteria are no met.				
Ge	notoxicity:		met.				on criteria are not	
Mu	itagenicity <i>in-vivo</i> :		met.					
Ge	rm cell mutagenicity		met.				on criteria are not	
Re	oroductive toxicity:		Based met.	on av	valiable data, th	e classificatio	on criteria are not	
	mmary of evaluati	on of the C	MR No info	orma	tion available			



% Degradation

Time (days)

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

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Trade name:		FERRI REAGENT, VERHOEFF B						
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3			

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:
	-

12.1.	Toxicity								
Acute (sl toxicity	hort-term)	Dose	Exposi time		Species	Μ	1ethod	Evaluation	Note
Fish		LC ₅₀	96 hour	S	-	-		-	-
Crustace	ea:	EC ₅₀	48 hours	S	-	-		-	-
Algae/ad	quatic plants:	IC ₅₀	72 hours	S	-	-		-	-
Other or	ganisms	-	-		-	-		-	-
Chronic toxicity	(long-term)	Doza	Exposi time		Species	M	1ethod	Evaluation	Note
Fish		LC ₅₀	96 hour	S	-	-		-	-
Crustace	ea:	EC ₅₀	48 hour	S	-	-		-	-
Algae/ad	quatic plants:	IC ₅₀	72 hours		-	-		-	-
Other or	ganisms	-	-		-	-		-	-
12.2.	Persistence	and degrad	lability						
	Abiotic deg	radation							
	Deg	radation ha	lf-lives		Method			Evaluation	Note
Marine water	No info	ormation av	ailable	No	information availa	ble	No information available		-
Fresh wa	No info	ormation av	ailable	No	information availa	ble	No information available		-
Air	No info	ormation av	ailable	No	information availa	ble	No information available		-
Soil	No info	rmation av	ailable	No	information availa	ble	No info	ormation	-

Method

Evaluation

Note



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Trade name:		FERRI REAGENT, VERHOEFF B												
Product code	e:	FRV-	OT-X**		Da	te of	compila	tion:	14	November	2022		Version:	3
		No in availa	formation	on	No ir availa		nformatio able	on	No information available			-		
12.3. Bio	accum	ulativ	re poten	tial										
Oc	tanol-w	vater	partition	n coeff	icient	(log l	Kow)							
Value			ation	рН		°C		ethod		Evalua			Note	
No information available	No information - available		-	_		No info		on	No informavailable	ation	-			
Bio	oconcei	ntrati	on Facto	or (BCF	······································									
Value			Speci	es	Method			Evaluation			Note			
No informati available		No in availa	formation	on	No information available		on	No information available		-				
Ch	ronic e	cotos	vicity		-				-					
Valu			Dose	E	xposı time		Spe	cies		Method	Ev	aluation	Not	te
Chronic toxic	city on	fish	LC ₅₀		ormat ilable		No informa availab			o formation vailable	No information available		-	
Chronic toxio	•)	EC ₅₀	No info			No informa availab	ation	No in		No information - available		-	
12.4. Mo	obility in	n soil												
				stributi	ion in	envir	onmenta	ıl com	partn	nents:				
Sui	rface te	nsion	n:					ı						
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Value		°C				tration			1ethod			Note	
	ormatio ovailable		o formatio vailable	on		inforn ilable	nformation No inf		information lable -					



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Trade n	ame:		FERRI REAGENT, VERHOEFF B OT-X** Date of compilation: 14 November 2022 Version: 3							
Product	code:	FRV-OT-X**	T-X** Date of compilation: 14 November 2022 Version:							
	Adso	rption / desorption								
Transpo	ort	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note				
Soil-wa		No information available	No information available	No information available	No information available	-				
Water-		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.	Resul	ts of PBT and vPvB as	ssessment							
		substance/mixture co oxic (PBT), or very pe	•		•		ve			
12.6.	Endo	crine disrupting prop	erties							
	prope	ubstance/mixture do erties according to RE mission Regulation (E	EACH Article 57(f) o	r Commission D	elegated regulation (or			
12.7.	Other	r adverse effects								
	No in	formation available								
		Disposal consideration								
13.1.	Waste	e treatment methods								
13.1.1.	Proc	duct/Packaging dispo	osal:							
	Sub	mit for disposal to th		norized by the M	linistry of Environme	ntal and Nature				
13.1.2.	Was	ste codes/waste desig	gnations according	to Law:						
	Disp	oosal must be made a	according to officia	l regulations.						
12 1 2	\^/-	ste treatment – releva	ant information							
13.1.3.	vvas	ste treatment – reieva	ant information:							



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Trade name:		FERRI REAGENT, VERHOEFF B								
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3					

	No information available	
13.1.4.	Sewage disposal – relevant i	nformation:
	Waste must not be disposed	of into the sewage system.
13.1.5.	Other disposal recommenda	tions:
	authorized by the ministry in	ct's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. collectors authorized by the ministry in charge.
13.1.6.	Relevant Community provision	ons:
	-	
SECTION	14. Transport information	
	Transporting/shipment by roa	d (ADR)
UN numb	oer:	Not subject to transport regulations
UN prope	er shipping name:	-
Transport	t hazard class(es):	-
Packing g	group:	-
Environm	ental hazards:	-
Special p	recautions for user:	-
	Transporting/shipment by rail	(RID)
UN numb	oer:	Not subject to transport regulations
UN prope	er shipping name:	-
Transport	t hazard class(es):	-
Packing g	group:	-
Environm	ental hazards:	-
Special p	recautions for user:	-
	Transporting/shipment by inla	and waterways (ADN)
UN numb	oer:	Not subject to transport regulations
UN prope	er shipping name:	-
Transport	t hazard class(es):	-
Packing g	group:	-
Environm	ental hazards:	-
Special p	recautions for user:	-
	Transporting/shipment by sea	(IMDG)
UN numb	oer:	Not subject to transport regulations



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Trade name:		FERRI REAGENT, VERHOEFF B							
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3				

UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
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:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

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



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Trade name:		FERRI REAGENT, VERHOEFF B							
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3				

	Information according guideline)	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessment					
	-					

SECTIO	N 16.	Other information	
16.1.	Indic	ation 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: Manufacturer's MSDS file.	
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classific	cation		Classification procedure
-			-
16.5.	Relev	ant H statements (nu	mber and full text)
		302	Harmful if swallowed.
		314	Causes severe skin burns and eye damage.
	H:	315	Causes skin irritation.
		319	Causes very serious eye irritation.
		412	Harmful to aquatic life with long lasting effects.
16.6.	Train	ing advice:	-



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Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3		

16.7.	Further information:	"X" in the product code marks different volumes (different packaging of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this
		material safety data sheet.

ANNEX: Exposure scenario resulting to Chemical safety assessment

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

amended by Regulation (EU) No. 2020/878

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Trade name:		HEMATOXYLIN, VERHOEFF A				
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3	

SECT	ION 1: Identification	of the substan	ce/mixt	ture and o	f the company/undertaking	
1.1.	Product identifier					
	Trade name:	HEMATOXYL	IN, VERI	HOEFF A		
	Chemical name:	-				
	Catalogue number:	HEMV-OT-X	**			
1.2.	Relevant identified uses of the substance or mixture and uses advised against					
	Uses:			For use w	ith special staining kits.	
	Uses advised against:			Only the	identified uses are advised.	
	Reason why uses adv	rised against:	uct is intended for use only as an <i>in vitro</i> diagnostic levice, registered at the Agency for Medicinal and Medical Devices and there is no reason to use er purposes.			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGr	BioGnost Ltd.		
	Address:		Medj	Medjugorska 59, Zagreb		
	Telephone number:		+385	+385 1 2409997		
	Telefax:		+385 1 2404039			
	E-mail of competent person:		<u>msds</u>	msds@biognost.hr		
	National contact:		-			
1.4.	Emergency telephon	Emergency telephone numbers				
	National Protection a	and Rescue Dire	ectorate	•	112	
	Medical information:				+385 1 2348 342	
	Other information:				-	

SECTIO	ON 2. Hazards identification				
2.1.	Classification of the substance	or mixture			
2.1.1.	Classification according to Reg	ulation (EC) No	. 1272/2008 (CLP)		
	Hazard class and category code: Hazard statement*:			Hazard statement*:	
	Flam. Liq. 2 H225				
2.1.2.	Additional information				
	-				
*For full	text of Hazard- and EU Hazard-	statements: see	Section 16.		
2.2.	Label elements				
	Product identification:	HEMATOXYLI	N, VERHOEFF A		
	Identification number:	ntification number: -			
	Authorisation number:	-			



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	1		·	<u> </u>	
Trade name:	HEMATOXYLIN, VERHOEFF A				
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	Hazard pictograms:	GHS02		
	Signal word:	Danger		
	Warning statement:	H225 Highly flammable liquid and vapor.		
	Precautionary statement:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. 		
	Supplemental hazard information (EU):	-		
2.3.	Other hazards			
	Endocrine Disrupting Properties:			
	No known endocrine disrupting	properties		
	Results of PBT and vPvB asset PBT or a vPvB.	ssment: 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	80 - 100 %	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.			
	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.			



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Trade name:		HEMATOXYLIN, VERHOEFF A				
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	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 e	ffects, 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 medical attention and special treatment needed			
	No information available			

SECT	ECTION 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 v not contaminate the environm	vith water spray. Collect contaminated fire fighting water separately. Do ent with extinguishing media.				

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



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Trade name:	HEMATOXYLIN, VERHOEFF A				
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Self-contained open-circuit con heat dissipation (fireproof cloth	npressed air breathing apparatus, a set for protecting the body from ing).		
6.2.	Environmental precautions:			
	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	tainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials		
6.3.2.	Cleaning up:	Sawdust, sand, mineral adsorbents		
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). Do not use incompatible materials (see Section 10).		
6.4.	Reference to other sections			
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.			

SECTIO	ECTION 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.				
	Measures to prevent aerosol and dust generation:	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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Trade name:					
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.
	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection								
8.1. Control para	meters							
Substance		CAS No		Occupational exposure limit values/short term values			Biological limit values	
				рр	m	mg/m³		
Ethanol		64-17-	5	100	0/-	1900/-	No information available	
Substance:	Substance: -							
EC No:		-		CASI	No:	-		
DNEL								
			l.	ndustri	ial			
Route of exposure:	Acut	Acute Acut		Chronic		Chronic	Chronic	
Route of exposure.	effect lo	ocal	effect syst	emic	effect local		effect systemic	
Oral	-		-		-		-	
Inhalation	1900 mg, (ethanol)	/m³	-		-		380 mg/m³ (ethanol)	
Dermal	-		-		-		343 mg/kg (ethanol)	
Critical physical param	eters: solul	bility, fl	ammability, o	corrosiv	vity:	-		
Consumer								
Route of exposure:	Acut	:e	Acute	2		Chronic	Chronic	
Route of exposure:	effect le	ocal	effect syst	emic	e	ffect local	effect systemic	
Oral	-		-	-			87 mg/kg bw/day (ethanol)	



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Trade n	name: HEMATOXYLIN, VERHOEFF A							
Product	: code: l	HEMV-OT-X**		Date of o	compilation:	14	Nov 2022	Version: 3
Inhalatio	n	950 mg/m³ - (ethanol)			-		114 mg/m³ (ethanol)	
Dermal		-	-		-		206 mg/kg	(ethanol)
PNEC			•					
Environn	Environmental protection target			PNEC				
Fresh wa	iter			0.96 mg/l (ethanol)			
Freshwat	ter sediments	5		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 se	wage treatment		580 mg/l (e	ethanol)			
Soil (agri	icultural)			0.63 mg/kg (ethanol)				
Air	Air			no information available				
8.2.	Exposure c	ontrols						
8.2.1.	Appropriat	e engineering con	trols					
	measures t	/mixture related to prevent exposur ntified uses:	Δ :	Do not eat, drink or smoke in the workspace. Use personal protective equipment.				
	Structural rexposure:	measures to preve	nt	No information available				
	Organisation prevent ex	onal measures to posure:		Organization of work in order to reduce other worker's influence during work process.				
	Technical rexposure:	neasures to prever	nt	See Section	7.2			
8.2.2.	Personal p	rotection equipme	nt					
8.2.2.1.	Eye and fac	ce protection:	of co	afety 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 proted	ction						
	Hand prote	ection:	1	tective gloves must be according to the EU Directive 2016/425/ I standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			re 2016/425/EEC	



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Trade name:	HEMATOXYLIN, VERHOEFF A				
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	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:	Protective full face mask (EN 136) or half mask (EN 140) equipped wit 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	ailable		
8.2.3.	Environmental exposure cor	ntrols			
	Substance/mixture related r exposure:	measures to prevent	See Section 6		
	Structural measures to prev	ent 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		

۱.	Information on basic physical and	I chemical properties	
		Value	Method
	Physical state:	liquid	no information available
	Colour:	brown 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:	15 °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



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Trade name:	HEMATOXYLIN, VERHOEFF A				
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	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	Other information				
	_					

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

11.1. Infor	Information on hazard classes as defined in Regulation (EC) No 1272/2008							
Acute toxicity:								
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results			
Oral:	-	rat	LD ₅₀	-	7.060 mg/kg (ethanol)			
Dermal:	-	rabbit	LD ₅₀	-	>20.000 mg/kg (ethanol)			
Inhalation:	-	rat	LC ₅₀	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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Trade name:					
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	HEMV-OT-	-X**	Da	te of compil	ation:	14 Nov 2022	Version: 3
	:						
nd co							
	-	e time	Speci	es	Evaluation		Note
ion	informat		No informat available			No information available	-
on			No informat available			No information available	-
n:	No infor	mation a	available				
	No infor	mation a	available				
elated	I to the phy	sical, ch	emical and to	xicological ch	naracteristics		
Oral exposure: Swallowing may cause irritation sensation; higher levels of conc In case of vomiting, aspiration of				entration ma causes cough	y cause nause	a, abdominal pair	and vomiting.
e:	_		•	•		e not likely. Long-	term exposure
					dequately ven	tilated perimeter	may cause
	Direct eye sensation.	contact	may cause sl	ight to mode	erate irritation,	lacrimation and b	ourning
so to	vicity (cubac	suto sub	ochronic chro	onis)			
36 10.					Method	Evaluation	Note
info	ormation	No	information	No	No	No	
info	ormation		information ble	No information available	No information available	No information available	n -
info	ormation		information ble	No information available	No information available	No information available	า -
info	ormation		information ble	No information available	No information available	No information available	n -
	ion on: elateo No info ava No info ava No info ava No info	ion Exposure No informat available Signature Signature Signature Signature Inhalation coughing, Direct eye sensation.	Exposure time No information available Swallowing may concentration may concentration may fee: Slight irritation. Af may cause drying, Inhalation of large coughing, sneezin Direct eye contact sensation. See toxicity (subacute, sub Dose Expo No information available No available	Exposure time Specion No information available	Exposure time Species No information available No information availabl	Exposure time Species Evaluation No information available No information information information available No information available No information information information information available No information informa	Exposure time Species Evaluation Method information available No information information available No information information information available No information infor



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Trade name:		HEMATOXYLIN, VERH			
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

Subchronic dermal	No information available	No information available	No information available	No information available	No informatio available	n -
Subchronic inhalation	No information available	No information available No information available		No information available	No informatio available	n -
Chronic oral No information available		No information available	No informatior available	No information available	No informatio available	n -
Chronic dermal No information available		No information available	No informatior available	No information available	No informatio available	n -
Chronic inhalation No information available		No information available	No informatior available	No information available	No informatio available	n -
i						
Specific targ	get organ toxicity	/ - repeated exposure				
		Specific effe		Target o		Note
Subacute oral		No information available				-
Subacute dern	nal	No information available		No information a	vailable	-
Subacute inha	ation	No information available		No information a	vailable	-
Subchronic ora	al	No information available		No information a	vailable	-
Subchronic dermal		No information available		No information a	vailable	-
Subchronic de		No information available		No information a	ıvailable	_
Subchronic de Subchronic inf	nalation	ino iniormation avail				_
	nalation	No information avail	able	No information a	vailable	_
Subchronic inh				No information a		
Subchronic inh Chronic oral	ıl	No information avail	able		vailable	-
Subchronic inh Chronic oral Chronic derma Chronic inhala	ıl tion	No information avail No information avail No information avail	able able	No information a	vailable	-
Subchronic inh Chronic oral Chronic derma Chronic inhala	ll tion (carcinogenicity	No information avail	able able luctive toxicit	No information a	vailable	-
Subchronic inh Chronic oral Chronic derma Chronic inhala CMR effects Carcinogen	il tion (carcinogenicity city:	No information avail No information avail No information avail	able able luctive toxicit No info	No information a No information a y)	vailable	-
Subchronic inh Chronic oral Chronic derma Chronic inhala CMR effects Carcinogen Mutagenicit	il tion (carcinogenicity city: y in-vitro:	No information avail No information avail No information avail	able able luctive toxicit No info	No information a No information a y) rmation available	vailable	-
Subchronic inh Chronic oral Chronic derma Chronic inhala CMR effects Carcinogen	il tion (carcinogenicity city: y in-vitro:	No information avail No information avail No information avail	able able luctive toxicit No info No info No info	No information a No information a y) rmation available rmation available	vailable	-
Subchronic inh Chronic oral Chronic derma Chronic inhala CMR effects Carcinogen Mutagenicit Genotoxicit Mutagenicit	il tion (carcinogenicity city: y in-vitro:	No information avail No information avail No information avail	able luctive toxicit No info No info No info No info No info	No information a No information a y) rmation available rmation available	vailable	-



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Trade name:					
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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	SECTION 12. Ecological information						
12.1. Toxici	12.1. Toxicity						
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC ₅₀	96 hours	Fish	No information available	8.140 mg/l (ethanol)	_	
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-	
Algae/aquatic plants:	IC ₅₀	72 hours	algae	No information available	5.000 mg/l (ethanol)	-	
Other organisms	-	-	-	-	-	-	
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note	
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	_	
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-	
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-	
Other organisms	-	-	-	-	-	-	

12.2. Persistence and degradability Abiotic degradation Degradation half-lives Method Evaluation Note Marine water No information available available available -



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Trade name	e:				HE	EMATOXYLIN,	, VER	HOEFF A	L		
Product co	de:	HEMV-OT-	-X**		Da	te of compilat	ion:	14	Nov 2022	Version:	3
	-T				7				*		
Fresh water	No ir	nformation av	ailable		No information available		No information - available				
Air	No ir	nformation av	ailable		No info	ormation ble		informati ilable	on -		
Soil	No ir	nformation av	ailable		No info	ormation ble		informati ilable	on -		
Biodegrad	dation										
% Degradat	tion	Time (da	ıys)		N	/lethod		Evaluatio	on	Note	
-	-			-			-		-		
12.3.	Bioacc	umulative po	tential								
	Octano	ol-water parti	tion co	efficie	ent (log l	(ow)		:			
Value	C	oncentration		рН	°C	Method		Eval	uation	Note	
-	-		-	-	-	-		-	-		

Biocor	ncentra	tion Factor (B	SCF)								
Value		Speci	es			Method		Eva	luation	Note	
No information available	Ν	lo informatior	on available		No info	ormation availab	ole	No infor		-	
Cl		-14.									
Chronic e	COTOXIO		-			C		1 - 4	F l	- NI-1	
Value		Dose	Exp	osure	e time	Species		lethod	Evaluatio	n Not	<u>.e</u>
Chronic toxicity on fish		LC ₅₀	No ir	nform able	ation	No information available		rmation ilable	No informatio available	n -	
Chronic toxicity on crustacea (Daphnia) EC ₅₀ No informat available		ation	No information available		rmation ilable	No informatio available	n -				
12.4. Mc	bility i	n soil									
Kno	own or	predicted dis	tributi	on in	environr	mental comparti	ments	•			
No	No information available										



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Trade name:		HEMATOXYLIN, VERHOR	FF A		
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	Surface tension:		°C	C •	ncontration	Ma	+b o d	Note	
	No information	Value °C No information No information		No		No	ethod		Note
	available	available			lable	inforr availa	nation ble	-	
Adso	rption / desorption								
Transpo	rt A/D coeffi Henry's cor		log Kov	٧	Evaporatio	n rate	N	/lethod	Note
Soil-Wa	ter No inf	ormation	No informa available	ation	No informat available	ion	No inta	formation ble	-
Water-A	ir No inf	ormation	No informa available	mation No informa		ion	No information available		-
Soil-Air	No inf available	ormation	No informa	ation	No informat available	tion	No information - available		-
12.5.	Results of PBT and	vPvB asse	ssment						
	Based on available	data, the _l	product does	s not o	contain any Pl	BT or vF	vB subs	stances.	
12.6.	Endocrine disruptir	ng propert	ies						
	Based on available	data, does	s not contain	endo	crine disrupto	ors.			
12.7.	Other adverse effe	cts							
	No adverse effects	are expec	ted.						
SECTIO	N 13. Disposal cons	sideration	s						
13.1.	Waste treatment m								
1211	D 1 1/D 1 1	ı:							
13.1.1.	3.1.1. Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and				d Nature				
	Protection.	al to the le	egai persori a	iutiloi	ized by the ivi	iiiiistiy	OI LIIVII	Jillientai and	
13.1.2.	. Waste codes/waste designations according to Low:								
15.1.2.		ce acoigina							



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Trade name:	HEMATOXYLIN, VERHOEFF A				
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13.1.3.	Waste treatment – relevant inf	ormation:				
	No information available					
13.1.4.	Sewage disposal – relevant inf	ormation:				
	Waste must not be disposed o	of into the sewage system.				
13.1.5.	5. Other disposal recommendations:					
	authorized by the ministry in c	'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	ding to official regulations.				
SECTION	N 14. Transport information					
Tran	sporting/shipment by road (ADI	R)				
UN num	ber	1170				
UN prop	er shipping name:	Ethanol solution				
Transpor	t hazard class(es):	3				
Packing	group:	П				
Environn	nental hazards:	No information available				
Special p	recautions for user:	-				
Tran	sporting/shipment by rail (RID)					
UN num	ber:	1170				
UN prop	er shipping name:	Ethanol solution				
Transpor	t hazard class(es):	3				
Packing	group:	П				
Environn	nental hazards:	No information available				
Special p	recautions for user:	-				
Transporting/shipment by inland waterways (ADN)						
UN number:		1170				
UN proper shipping name:		Ethanol solution				
Transport hazard class(es):		3				
Packing group:		II				
Environn	nental hazards:	No information available				
Special p	recautions for user:	-				
Tran	sporting/shipment by sea (IMD0					



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Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

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

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



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Trade name:	HEMATOXYLIN, VERHOEFF A		OEFF A		
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	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 or biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical safety assess	sment			
	None				

SECTIO	SECTION 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		



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Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3		

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

	ANNEX: Exposure scenario resulting to Chemical safety assessment
I	-



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

amended by Regulation (EU) No. 2020/878

			Pa	age 1 of 16		
Trading name:	IODINE SOLUTION, VERHOEFF C					
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3	

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

SECTIO	SECTION 2. Hazards identification						
2.1	Classification of the substance	e or mixture					
2.1.1	Classification according to Re	gulation (EC) No 1	272/2008 (CLP)				
	Hazard class and cate	gory code:		Hazard statements*:			
	Not identified as hazardous s	ubstance.	-				
2.1.2.	Additional information						
	-						
*For fu	ll text of Hazard- and EU Hazar	d-statements: see S	SECTION 16				
2.2	Label elements						
	Product identification:	IODINE SOLUTI	ON, VERHOEFF C				
	Identification number:	-					
	Authorization number:	-					
	Hazard pictograms:	-					



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Trading name:	IODINE SOLUTION, VERHOEFF C						
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3		

	Signal word:	-			
	Hazard statements:	-			
	Precautionary statements:	-			
	Supplemetal hazard information (EU):	-			
2.3	Other hazards				
	Endocrine Disrupting Proper	ties:			
	No known endocrine disruptin	g properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substa 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	2 Most important symptoms and effects, both acute and delayed					
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				



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

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

SECTIO	ON 6. Accidental release meas	ures					
6.1	Personal precautions, protective	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 mer without protective equipment. Avoid breathing vapors and avoid co with skin and eyes. Do not smoke. Keep away from ignition source						
	Emergency procedures: Mark the area using proper signs.						
6.1.2.	For emergency responders:						
	Use protective equipment; in a (see Section 8).	case of inadequate ventilation use adequate airways protective equipment					
6.2	Environmental precautions:						
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.						
6.3	Methods and material for con-	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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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					
	See Section 7 for information on safe handling.					
	See Section 8 for information on personal protection equipment.					
	See Section 13 for disposal in	formation.				

SECTIO	ON 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any 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 tightly clos	r from food and drink. Keep the containers sed.		
	Advices for storage equipment:	must be re	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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	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								
Substa	ance		CA	S No	(exposure limit term values	В	iological limit values
Substance					рр	m	mg/m³		3	
-				-		_	-	-	-	
							'			
Substance nam	ne:	-								
EC No: - CAS No: -										
DNEL										
						Indu	strial			
Route of Acute Acute				Chronic		Chronic				
exposure:		effect	effect local effect systemi		emic	effect local			effect systemic	
Oral	ral			-		-				
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	NEC			
Fresh water						n	o inform	ation 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

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no information available

roou Chai	-OOG CHAIH		no information available		
Microorga	anisms in sewage treatment		no information available		
Soil (agric	cultural)		no information available		
Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measu prevent exposure during identifie		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to prevent exposure: Technical measures to prevent exposure:		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. Secu stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment	protection equipment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection	<u>i</u>			
	Hand protection:		otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
	Other skin protection:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed (
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		



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

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

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



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

11.1 Informa	tion on hazard classes	as defined in	n Regulation	(EC) No 1272/	2008		
Acute to	oxicity:						
Route of exposure:	Method	Species		₅₀ /LC ₅₀ or E _{mix}	Exposure tim	ne	Results
Oral:	No information available	-	No inforr available	nation	-		-
Dermal:	No information available	-	No inforr available	nation	-		-
Inhalation:	No information available	_	No information - available		-		-
Specific	target organ toxicity		sure (STOT S				
	Specific	effects	Target organ		an		Note
Oral:	No information a	vailable	No information available			-	
Dermal:	No information a	vailable	No i	No information available -			
Inhalation:	No information a	vailable	No i	nformation ava	ilable	-	
Aspiration	on hazard:	No	o informatio	n available.			
Irritatior	n and corrosion						
	Exposure ⁻	time	Species	Evaluation	Method		Note
Skin corrosion/irritation	on:	-		-	-	-	
Serious eye damage/irritation	- 1	-		_	-	-	
Sensitiza	ation						
Skin sensitization	n: No infor	mation availa	able.				
Respiratory sensi		mation availa					



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Oral exposure:	No informa	tion available.				
Dermal exposure	e: No informa	tion available.				
Inhalation expos	ure: No informa					
Eye exposure:	No informa	tion available.				
Repeate	ed dose toxicity (su	bacute, subchro	onic, chronic)	1	:	
	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	-



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Subacute oral	No information available		No information available	-		
Subacute dermal	No information available		No information available	-		
Subacute inhalation	No information available		No information available	-		
Subchronic oral	No information available		No information available	-		
Subchronic dermal	No information available		No information available	-		
Subchronic inhalation	No information available		No information available	-		
Chronic oral	No information available		No information available	-		
Chronic dermal	No information available		No information available	-		
Chronic inhalation	No information available		No information available	-		
CMR effects (c	carcinogenicity; mutagenicit	y; reproductive t	toxicity)			
Carcinogenici	ty:	Based on availa	able data, the classification c	riteria are not met.		
Mutagenicity	in vitro:	Based on availa	able data, the classification c	riteria are not met.		
Genotoxicity:		Based on available data, the classification criteria are not met.				
Mutagenicity	in vivo:	Based on available data, the classification criteria are not met.				
Germ cell mut	agenicity:	Based on available data, the classification criteria are not met.				
Reproductive	toxicity:	Based on available data, the classification criteria are not met.				
Summary of properties:	evaluation of the CN	MR Based on a met.	available data, the classifica	ation criteria are not		
11.2 Information o	n other hazards:					
11.2.1. Endocrine disi	rupting properties:					
The substance components of disrupting properties of the substance of the	ce/mixture does not contactonsidered to have endocripoperties according to REAL or Commission Delegated U) 2017/2100 or Commission U) 2018/605 at levels of 0.1%	ine CH eed on				
11.2.2. Other informa	itions:					

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



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

12.2 Persistence and degradability

Abiotic degradation

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

			ion

1 113				
% Degradation	Time (days)	Method	Evaluation	Note
No information available				



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Produ	ct code:		JODV	-OT-X**		Date of compilation:		on: 21 De	ec 2022	١	Version:	3	
12.3	Bioacci	umu	lative n	otential									
12.0			•	tition coe	efficient	(log Kow	')						
Valu			centrat		рН	°C		ethod	Evalu	ation		Note	
-	-			-		-	-		-		-		
,		cent	ration	factor (BC			\ 4 - 4 !					NI - 1	
	Value ormation		No	Species	rmation	No info	Method		Evaluati			Note	
availab			availab		rmation	availab		JΠ	available	No information available			
	Chroni	c eco	otoxicit	у									
	Value	è		Dose		posure time	Spe	ecies	Method	Evalua	tion	Note	
					No		No		No	No			
Chroni	c toxicity	on f	fish	LC ₅₀	1	rmation		mation	information	informa		-	
					No	lable	availa No	abie	available No	available No	e 		
	c toxicity cea (<i>Daph</i>			EC ₅₀	1	rmation	1	mation	information	informa	tion	-	
Crustac	.еа (Бирг	mu)			avai	lable	availa	able	available	available	е		
40.4	N.A. 1. 111		•,										
12.4	Mobilit					· •							
	No info			ed distrib	ution in	environn	nentai d	compart	ments:				
	Surface			allable									
	Val		131011.	°C	(Concentra	ation		Method			Note	
	No	-	No					No inf					
	informa availab			ormation ailable		o informa ailable	ition	availat	ormation ole	-			
	1		<u>i</u>		<u>i</u>			.=		<u></u>	••••••		



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	Adsorption / desorption				
Transpo	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wat	ter No information available	No information available	No information available	No information available	-
Water-a	ir No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5	Results of PBT and vPvB asse	ssment			
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulat		
12.6.	Endocrine disrupting proper	 :ies			
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulat		
12.7	Other adverse effects				
	No further relevant informat	on available.			
SECTIO	N 13. Disposal consideration	ns			
13.1	Waste treatment methods				
	·				
13.1.1.	Product/Packaging disposa	al:			
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.				
	•	legal person autho	rized by the Ministr	y of Environmental	and Nature
13.1.2.	•			y of Environmental	and Nature
13.1.2.	Protection.	ations according to	o Law:		
13.1.2.	Protection. Waste codes/waste design 15 01 10*: Packaging that of	ations according to	o Law:		
13.1.2.	Protection. Waste codes/waste design 15 01 10*: Packaging that of	ations according to	o Law:		
	Waste codes/waste design 15 01 10*: Packaging that a substances	ations according to	o Law:		
	Waste codes/waste design 15 01 10*: Packaging that a substances Waste treatment – relevant	ations according to	o Law:		



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	Waste must not be disposed	of into the sewage system.		
13.1.5.	Other disposal recommendat	ions:		
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.			
13.1.6.	Relevant Community provisio	Relevant Community provisions:		
	Disposal must be made accor	ding to official regulations.		
SECTION	14. Transport information			
-	Transporting/shipment by road	I (ADR)		
UN numb	oer:	Not subject to transport regulations		
UN prope	er shipping name:	-		
Transpor	t hazard class(es):	-		
Packing o	group:	-		
Environm	entally hazardous:	-		
Special p	recautions for user:	-		
-	Transporting/shipment by rail (RID)		
UN numb	oer:	Not subject to transport regulations		
UN prope	er shipping name:	-		
Transpor	t hazard class(es):	-		
Packing o	group:	-		
Environm	entally hazardous:	-		
Special p	recautions for user:	-		
	Inland waterway transport (ADI	N)		
UN numb	oer:	Not subject to transport regulations		
UN prope	er shipping name:	-		
Transpor	t hazard class(es):	-		
Packing o	group:	-		
Environmentally hazardous:		-		
Special precautions for user:		-		
-	Transporting/shipment by sea ((IMDG)		
UN number:		Not subject to transport regulations		
UN prope	er shipping name:	-		
Transpor	t hazard class(es):	-		
Packing group:		-		



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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: -	

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



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

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

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trading name:	ORANGE G, 1% SOLUTION				
Product code:	ORG1-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

SECT	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	ORANGE G	, 1% SOLU	ITION	
	Chemical name:	-			
	Catalogue number:	ORG1-OT->	(**		
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with Movat 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 sheet				
	Supplier:		BioGnost Ltd.		
	Address:	Address:		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	person:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone number				
	National Protection a	National Protection and Rescue Dire		112	
	Medical information:	Medical information:		+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification			
2.1	Classification of the substance or mixture			
2.1.1	Classification according to F	Classification according to Regulation (EC) No 1272/2008 (CLP)		
	Hazard class and ca	tegory code:	Hazard statements*:	
	Not identified as hazardous	substance.	-	
2.1.2.	Additional information			
	-			
*For fu	ıll text of Hazard- and EU Haza	ard-statements: see S	SECTION 16	
2.2	Label elements			
	Product identification:	ORANGE G, 1%	SOLUTION	
	Identification number: -			
	Authorization number:	-		
	Hazard pictograms:	-		



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	Endocrine Disrupting Proper	ties:		
	No known endocrine disrupting properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not 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	ECTION 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 eff	Most important symptoms and effects, both acute and delayed		
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		



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

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

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



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

SECTIO	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	on:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	noroughly wash hands after work and before eating.			
7.2	Conditions for safe storage, including any incom	npatibilities	bilities		
	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:	Manufactu	urer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.		
	Advices for storage equipment:	must be re that direct	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.		



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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:	-

8.1 Contro	ol para	meters							
5					О	ccup	ational e	exposure limit	
Substa	nce		CA	S No		•		term values	Biological limit values
						рр	m	mg/m³	J
					-			-	
					L			-	
Substance nam	e:	-							
EC No:		-	CAS No	:	-				
DNEL									
					1	Indu	strial		
Route of		Acu	ıte		Acute			Chronic	Chronic
exposure:		effect	local effect system		nic		effect local	effect systemic	
Oral	-			-			-		-
Inhalation		•		-			-		-
Dermal	-			-			-		-
Critical physica	l parar	meters: s	olubility,	flamm	nability, o	corro	sivity:	-	
					(Cons	umer		
Route of		Ad	cute		Acute			Chronic	Chronic
exposure:		effec	t local	effe	ct syster	mic		effect local	effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
PNEC									
Environmental protection target				P	NEC				
Fresh water				no	no information available				
Freshwater sediments					no	no information available			
Marine water						no	no information available		
Marine sedime	nts	· · · · · · · · · · · · · · · · · · ·				no	no information available		



Food chain

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

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no information available

i ood ciidi	Toda Criairi		The information available
Microorga	anisms in sewage treatment		no information available
Soil (agric	:ultural)		no information available
Air			no information available
8.2	Exposure controls		
8.2.1.	Appropriate engineering controls		
	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 preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.
8.2.2.	Personal protection equipment		
8.2.2.1.	Eye and face protection:	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	<u>i</u>	
	Hand protection:		otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min
	Other skin protection:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No information available	
8.2.3.	Environmental exposure controls		
	Substance/mixture related measures to prevent exposure:	See Se	ction 6



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

Colour: orange No information available No information available Melting point / freezing point: No information available	Information	on on basic physical and	chemical properties	
Colour: orange 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 Plasmability: No information available No information available No information available Lover and upper explosion limit: No information available No information available Flash point: No information available No information available Auto-ignition temperature: No information available No information available Decomposition temperature: No information available No information available pH: No information available Relative vapour density: No information available No information availabl			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 No information available Flash point: No information available No information available Auto-ignition temperature: No information available Decomposition temperature: No information available	Physical s	tate:	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	Colour:		orange	No information available
Boiling point or initial boiling point and boiling range: Flammability: No information available Lover and upper explosion limit: No information available No information available Flash point: No information available No information available No information available Auto-ignition temperature: No information available Decomposition temperature: No information available No information available PH: No information available	Odour/oc	lour threshold:	no information available	No information available
point and boiling range: Flammability: No information available No information available Lover and upper explosion limit: 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 Partition coefficient noottanol/water (log value): Vapour pressure: No information available	Melting p	oint / freezing point:	No information available	No information available
Lover and upper explosion limit: No information available Flash point: No information available PH: No information available Partition coefficient nootanol/water (log value): 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 PH: No information available Partition coefficient n- octanol/water (log value): No information available	Flammabi	lity:	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 Density and/or relative density: No information available No information available Relative vapour density: No information available No in	Lover and	upper explosion limit:	No information available	No information available
Decomposition temperature: No information available PH: No information available Partition coefficient nootanol/water (log value): Vapour pressure: No information available	Flash poir	nt:	No information available	No information available
pH: No information available No information available Kinematic viscosity: No information available Solubility: No information available Partition coefficient n- octanol/water (log value): Vapour pressure: No information available Density and/or relative density: No information available Relative vapour density: No information available	Auto-igni	tion temperature:	No information available	No information available
Kinematic viscosity: No information available No information available No information available Partition coefficient n- octanol/water (log value): Vapour pressure: No information available	Decompo	sition 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 Relative vapour density: No information available No information available No information available	Kinematic	viscosity:	No information available	No information available
octanol/water (log value): Vapour pressure: No information available	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 p	ressure:	No information available	No information available
	Density a	nd/or relative density:	No information available	No information available
Particle characteristics: No information available No information available	Relative v	apour density:	No information available	No information available
	Particle ch	naracteristics:	No information available	No information available

SECT	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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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

exposure: Oral: Dermal:	Method No information available	Species	Effect				
Route of exposure: Oral: Dermal: Inhalation:	No information	Species	Effect				
Dermal:				rive Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time		Results
		-	No inf	ormation available	-		-
Inhalation:	No information available	-	No inf	ormation available	_		-
midiation.	No information available	_	No inf	formation available	-		-
:							
Specific ta	rget organ toxicity	- single expo	sure (STC	OT SE):			
	Specific	effects	Target organ		1		Note
Oral:	No information a	vailable	No information available		-		
Dermal:	No information a	vailable	No information available		-		
Inhalation:	No information a	vailable	No information available -			-	
Acnimation	hozordi	NI	a infarma	ition available.			
Aspiration	Tiazaiu.	INC	O IIIIOIIIIa	ition available.			
Irritation a	and corrosion						
	Exposure	time	Species	Evaluation	Method		Note
Skin corrosion/irritation	-	-		-	-	-	
Serious eye damage/irritation	-	-		-	-	-	
Sensitizati	on						
Skin sensitization:		mation availa	ahla				
Respiratory sensitiz		mation availa					



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Oral exposure:		No informati	on available.				
Dermal exposure	2:	No informati	on available.				
Inhalation expos	ure:	No informati	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 avail	information able	No information available	No information available	No information available	No information available	-
Subacute dermal	No avail	information able	No information available	No information available	No information available	No information available	-
Subacute inhalation	No avail	information able	No information available	No information available	No information available	No information available	-
Subchronic oral	No avail	information able	No information available	No information available	No information available	No information available	-
Subchronic dermal	No avail	information able	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 avail	information able	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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Subacute inhalation	No information available		No information available	-		
Subchronic oral	No information available		No information available	-		
Subchronic dermal	No information available		No information available	-		
Subchronic inhalation	No information available	No information available		-		
Chronic oral	No information available		No information available	-		
Chronic dermal	No information available		No information available	-		
Chronic inhalation	No information available		No information available	-		
CMR effects (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 ava	ilable data, the classification o	criteria are not met.		
Mutagenicity	in vivo:	Based on available data, the classification criteria are not met.				
Germ cell mu	tagenicity:	Based on available data, the classification criteria are not met.				
Reproductive	toxicity:	Based on available data, the classification criteria are not met.				
Summary o properties:	f evaluation of the CN	CMR Based on available data, the classification criteria are not met.				
11.2 Information of	on other hazards:					
11.2.1. Endocrine dis	rupting properties:					
components disrupting pr Article 57(f) regulation (E	ce/mixture does not cont considered to have endocr roperties according to REA or Commission Delegat U) 2017/2100 or Commissi U) 2018/605 at levels of 0.1%	ine CH ted ion				
11.2.2. Other inform	ations:					
-						

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



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Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inforr availa	nation ble	-
Algae/aquatic μ	Algae/aquatic plants IC ₅₀		4 days	No information available	No information available	No inforr availa	nation ble	-
Other organism	าร	-	-	-	-	-		-
Chronic (long-t toxicity	- LINSE		Exposur time	e Species	Method	Eva	luation	Note
Fish		LC ₅₀	96 hours	No information available	No information available	No inforr availa	nation ble	-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inforr availa	nation ble	-
Algae/aquatic p	olants	IC ₅₀	72 hours	No information available	No information available	No		-
Other organism	Other organisms		_	-				-
			:	1	:			1
	tence a	nd degradab	ility					
	c degra		•	Method	Evaluatio	on		Note
Abioti	c degra De	dation	alf-lives	Method No information available	Evaluatio No informatio available		-	Note
Abioti	c degra De No ir	dation gradation ha	alf-lives vailable	No information	No informatio	n	-	Note
	c degra De No ir No ir	ndation gradation ha	alf-lives vailable vailable	No information available No information	No information available No information	n		Note
Abioti Marine water Fresh water	No ir	ndation gradation han information and	alf-lives vailable vailable vailable	No information available No information available No information	No information available No information available No information available	n n	-	Note
Abioti Marine water Fresh water Air Soil	No ir	idation Igradation had a formation as a formation a	alf-lives vailable vailable vailable	No information available No information available No information available No information	No information available	n n	-	Note
Abioti Marine water Fresh water Air Soil	No ir No ir No ir	idation Igradation had a formation as a formation a	vailable vailable vailable vailable	No information available No information available No information available No information	No information available	n n n	-	Note



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12.3 Bio	accumula	tive potentia	al							
Oct	tanol-wat	er partition (coefficient	(log Kow	')					
Value	Conc	entration	рН	°C	Ме	ethod	Evalua	ation		Note
-	-		-	-	-		-		-	
				,					•	
Bio	concentra	ation factor ((BCF)							
Value		Speci	ies	I	Method		Evaluation	on		Note
No informat		No in Ivailable	formation	No info	ormatic ole	n	No information	on	-	
	1						:			
Chr	ronic ecot	oxicity								
Va	alue	Do	CD .	oosure ime	Spe	ecies	Method	Evalu	ation	Note
Chronic toxi	icity on fis	sh LC ₅₀	No infor avail	mation able	No inforr availa	nation ble	No information available	No informa availab		-
Chronic toxi crustacea (<i>D</i>	-	EC ₅₀	No infor avail	mation able	No inforr availa	nation ble	No information available	No informa availab		-
		;	·							:
12.4 Mo	bility in s	oil								
Kno	own or pr	edicted distr	ribution in	environm	nental c	ompart	ments:			
No	informat	ion available								
Sur	rface tens	ion:								
	Value	°C	C	oncentra	ation		Method			Note
	ormation ailable	No informati available	∩n i	informa ailable	ntion	No infa	ormation ble	-		
Ads	sorption /	desorption								



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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	Vater-air No information No i available avail		No information available	No information available	-		
Soil-air	Soil-air No information available		No information available	No information available	-		
12.5 Re	esults of PBT and vPvB asse	ssment					
Th	e substance/mixture does cording to REACH Article 5 gulation (EU) 2018/605 at	not contain compo 7(f) or Commission	n Delegated regulation (
12.6. En	Endocrine disrupting properties						
ac	The substance/mixture does not contain components considered to have endocrine disrupting propertie according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.						
12.7 Ot	her adverse effects						
No	o further relevant informati	on available.					
SECTION 1	3. Disposal consideration	C					
	Waste treatment methods						
13.1.1.	Product/Packaging disposa	1.					
	Submit for disposal to the I Protection.		rized by the Ministry of	Environmental	and Nature		
12.1.2		Al an	. 1				
	Waste codes/waste designants 15 01 10*: Packaging that commonstances	5		is contaminated	I with hazardous		
13.1.3.	Waste treatment – relevant	information:					
. 5. 1.5.	No information available	ormadon.					



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13.1.4.	Sewage disposal – releva	nt information:
	Waste must not be dispo	sed of into the sewage system.
13.1.5.	Other disposal recomme	ndations:
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.
13.1.6.	Relevant Community pro	visions:
	Disposal must be made a	ccording to official regulations.
SECTIO	N 14. Transport information	on
	Transporting/shipment by	road (ADR)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	mentally hazardous:	-
Special p	precautions for user:	-
	Transporting/shipment by	rail (RID)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	mentally 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	mentally hazardous:	-
Special p	precautions for user:	-
	Transporting/shipment by	sea (IMDG)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-



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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 (ICA	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

	ON 15. Regulatory informa		
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 or 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 199 guideline)	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2	Chemical safety assessme	nt				
	None					

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

ANNEX: Exposure scenario resulting to chemical safety assessment



SAFETY DATA SHEET

amended by Regulation (EU) No. 2020/878

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Trade name:	PHOSPHOTUNGSTIC ACID, 5% SOLUTION				
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2023	Version:	6

1.1.	Product identifier					
	Trading name:	PHOSPI	PHOSPHOTUNGSTIC ACID, 5% SOLUTION			
	Chemical name:	-				
	Product code:	FVK5-O	T-X**			
1.2.	Relevant identified	uses of the	substanc	e or mixtu	ure and uses advised against	
	Uses:			For use w	vith special staining kits.	
	Uses advised against:			Only the	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 and there is no reason to use it for other purposes.			
1.3.	Details of the supplier of the safety data sheet					
	Supplier: BioC		BioGnos	oGnost Ltd.		
	Address:	Address:		Medjugorska 59, Zagreb		
	Telephone number		+385 1 2409997			
	Telefax:		+385 1 2	385 1 2404039		
	e-mail of competer	nt person:	msds@b	ds@biognost.hr		
	National contact:		-			
1.4.	Emergency telephone numbers					
	National Protection and Rescue Direct		ıe Directoi	rate:	112	
	Medical information	n:			+385 1 2348 342	
	Other information:			-		

SECTIO	ION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to	Regulation (EC) N	lo 1272/2008 (CLP)			
	Hazard class and ca	tegory code:	Hazard statement*:			
	Skin Irr. 2		H315			
	Eye Irr. 2		H319			
2.1.2.	Additional information					
	-					
*For the	e full text of H and EUH phras	es see Section 16				
2.2.	Label elements					
	Product identification:	PHOSPHOTU	NGSTIC ACID, 5% SOLUTION			
	Identification number:	-				
	Authorisation number:	-				



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	Hazard pictograms:	GHS07		
	Signal word:	Warning		
	Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation.		
	Precautionary statement:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention.		
	Supplemetal hazard information (EU):	-		
2.3.	Other hazards	Other hazards		
		tains no components considered to be either persistent, bioaccumulative sistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		

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)		
12501-23-4/ 603-020-3/ -	-	4 - 5 %	phosphotungstic acid hydrate	Skin Corr. 1B; H314 Eye Dam. 1; H318		

SECTION	SECTION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.			
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.			
	Following skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.			
	Following eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs and persists: Get medical advice.			



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	Following ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.		
	Self-protection of the first aider	-		
4.2.	Most important symptom	ns and effects, both acute and delayed		
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		
	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 immedia	Indication of any immediate medical attention and special treatment needed		
	Treat symptomatically.			

SECTIO	ECTION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.				
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.				
5.2.	Special hazards arising from the su	bstance or mixture				
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).				
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					
	Heating may cause container cracking due to increase in pressure. Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.					

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective e	equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use suitable 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:				



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	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, Protection and Rescue Direct	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.	
6.3.	Methods and materials for co	ontainment and cleaning up	
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.	
6.3.2.	Cleaning up:	After removing the product, use water to wash the work space and used materials.	
6.3.3.	Other information:	No information available.	
6.4.	Reference to other sections		
	-		

SECTIO	DN 7. Handling and storage		
7.1.	Precautions for safe handling		
7.1.1.	Protection measures		
	Measures to prevent fire:		Use in well ventilated storage rooms. Refer to the manufacturer's recommendations.
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.
	Other measures:		-
7.1.2.	Advice on general occupational hygiene:		
	Do not eat, drink or smoke in the workspace. The	noroughly wa	ash hands after work and before eating.
7.2.	Conditions for safe storage, including any incor	npatibilities	
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a lated storage rooms at temperatures om 15 to 25 °C.
	Packaging materials:	Manufacti	urer's original packaging.
	Requirements for storage rooms and vessels:	Keep away tightly clo	y from food and drink. Keep the containers sed.
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no directly leads into sewage system. Secure ntilation.



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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 9).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

8.1. Control pa			ERSONA	AL PRO	OTECTIO	N			
8.1. Control pa	irameter	CAS N	No		•	exposure t term va		B	siological limit values
00.001000		<i>C,</i> 1.0 .		ķ	ppm	mg/	m ³	_	
-		-			-	-			-
Substance: -			:						
EC No: -		CAS No:	-						
DNEL									
				Ind	lustrial				
Route of exposure:		te effect		ute eff		Chro	onic eff	ect	Chronic effect
Troute of exposurer		local	S	ystemi	ic		local		systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-	1		-
Critical physical para	meters:	solubility, fl	ammabil	ity, coı	rosivity:		-		
				Cor	nsumer				1
Route of exposure:		te effect		ute eff		Chro	onic eff	ect	Chronic effect
·		local	S	ystemi	ic		local		systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
PNEC									
Environmental prote	ction ta	rget			PNEC		املمانميي		
Fresh water						rmation a			
Freshwater sediment	ts					rmation a			
Marine water						rmation a			
Marine sediments					ino into	rmation a	ıvaııabl	e 	



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Food cha	in		No information available
Microorg	anisms in sewage treatment		No information available
Soil (agri	cultural)		No information available
Air			No information available
8.2.	Exposure controls		
8.2.1.	Appropriate engineering controls		
	Substance/mixture related measure to prevent exposure during identifications:	ied U	se personal protective equipment. Do not eat, drink or moke in the workspace.
	Structural measures to prevent exposure:	N	lo information available
	Organisational measures to preven exposure:		rganization of work in order to reduce other worker's affluence during work process.
	Technical measures to prevent exposure:		ecure proper workspace ventilation in order to keep oncentration levels in air below permitted levels.
8.2.2.	Personal protection equipment:		
8.2.2.1.	Eye and face protection:		afety glasses tested and approved under appropriate randards such as EN 166(EU).
8.2.2.2.	Skin protection:	•••••••••••••••••	
	Hand protection:	рі	andle with chemical resistant gloves. The selected rotective gloves have to satisfy the specifications of EU irective 89/686/EEC and the standard EN 374 derived from .
	Other skin protection:	N	o specific protective equipment required.
8.2.2.3.	Respiratory protection:		se when overexposure potential. Improper use of espirators is dangerous.
8.2.2.4.	Thermal hazards:	N	o information available
8.2.3.	Environmental exposure controls		
	Substance/mixture related measures to prevent exposure:	See Sect	tion 6
	Structural measures to prevent exposure:	Use mod	dern equipment.
	Organisational measures to prevent exposure:	Adapt th workpla	he work process to the required working conditions of the ice.
	Technical measures to prevent exposure:	See Sect	tion 6

SECTION 9. Physical and chemical properties



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9.1.	Information on basic physical	and chemical properties	
		Value	Method
	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
.2.	Other information		
	-		

SECTIO	N 10.: Stability and reactivity	
10.1.	Reactivity:	Not reactive under normal conditions.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3.	Possibility of hazardous reactions:	No information available.
10.4.	Conditions to avoid:	Contact with incompatible materials and temperature extremes.
10.5.	Incompatible materials:	Strong oxidizers.



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10.6.	Hazardous decomposition products:	Does not decompose under normal conditions. During fire, thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (as asphyxiant as sufficient concentrations).
-------	-----------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

11.1. Inforr	mation on toxic	cological ef	fects						
Acute	toxicity:								
Route of exposure:	Meth	hod	Sp	ecies	Effect Dos LD ₅₀ /LC ATE _m	se C ₅₀ or	Exposu time		Results
Oral:	No infor availa			-	No inform availa	ation	-		-
Dermal: av		rmation able		_	No information available		-		-
		rmation able		No - information available		ation			
					1			i	
: •	ific target orga No inform	•	cific effe	•	ΓΟΤ-SE):	Targe	et organ	_	Note
Oral:	No inform	Spec	cific effe able	•	TOT-SE):		et organ	-	Note
Spec Oral: Dermal: Inhalation:	No inform	Spec nation avail	cific effe able able	•	TOT-SE):	-	et organ		Note
Oral: Dermal: Inhalation: Aspir	No inform	Spec nation avail nation avail nation avail	cific effe able able	•	TOT-SE):	-	et organ	-	Note
Oral: Dermal: Inhalation: Aspir	No inform No inform No inform	Spec nation avail nation avail nation avail	able able able able	ects		-		-	Note
Oral: Dermal: Inhalation: Aspir	No inform No inform No inform ation hazard:	Specination avail nation avail sion	able able able able	ects		-		-	



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•								
				, and toxicologic	al properties			
			n specific syn	····				
-				nptoms. May ca	ise skin irritatioi	٦.		
•		No known specific symptoms.						
Eye exposure:	No	o know	n specific syn	nptoms. May ca	ise mild eye irrit	ation.		
Rene	ated dose toxi	city (su	hacute subch	nronic, chronic)				
Перес	Dose	city (Su	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No informat available	ion i	lo nformation vailable	No information available	No information available	No information available	No information available	
Subacute dermal	No informat available	ion ir	lo nformation vailable	No information available	No information available	No information available	No information available	
Subacute inhalation	No informat available	ion ir	lo nformation vailable	No information available	No information available	No information available	No informatior available	
Subchronic oral	No informat available	ion ir	lo nformation vailable	No information available	No information available	No information available	No informatior available	
Subchronic dermal	No informat available	ion ir	lo nformation vailable	No information available	No information available	No information available	No informatior available	
Subchronic inhalation	No informat available	ion ir	lo nformation vailable	No information available	No information available	No information available	No informatior available	
Chronic oral	No informat available	ion ir	lo nformation vailable	No information available	No information available	No information available	No informatior available	
Chronic dermal	No informat available	ion ir	lo nformation vailable	No information available	No information available	No information available	No information available	
Chronic inhalation	No informat	ion ir	lo nformation vailable	No information available	No information available	No information available	No information available	



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		Specific effects	S	Target organ	Note		
Subacute oral		No information available		No information available	No information available		
Subacute dermal		No information available		No information available	No information available		
Subacute inhalation		No information available		No information available	No information available		
Subchronic oral		No information available		No information available	No information available		
Subchronic dermal		No information available		No information available	No information available		
Subchronic inhalation		No information available		No information available	No information available		
Chronic oral		No information available		No information available	No information available		
Chronic dermal		No information available		No information available	No information available		
Chronic inhalation		No information available		No information available	No information available		
	CMR effects (carcino	genicity, mutagenicity,	reprodu	uctive toxicity)			
	Carcinogenicity:		met.	on available data, the classific			
	Mutagenicity in-vitr	o:	Based on available data, the classification criteria are not met.				
	Genotoxicity: Mutagenicity <i>in-vivo</i> : Germ cell mutagenicity: Reproductive toxicity:		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
			Based on available data, the classification criteria are not met.				
	Summary of evalue properties:	uation of the CMR	No info	ormation available			
11.2.	Information on other	er hazards:					
11.2.1.	Endocrine disrupting	g properties:					
	No known endocrin	e disrupting properties					



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11.2.2.	Other informations:
	-

12.1. To	kicity						
Acute (short- toxicity	term)	Dose	Exposu time	re Species	Metho	d Evaluation	Note
Fish		LC ₅₀	96 hours	-	-	-	-
Crustacea:		EC ₅₀	48 hours	-	-	-	-
Algae/aquati	c plants:	IC ₅₀	72 hours	-	-	-	-
Other organi	sms	-	-	-	-	-	-
Chronic (long toxicity	1)073		Exposu time	re Species	Metho	d Evaluation	Note
Fish		LC ₅₀	96 hours	-	-	-	-
Crustacea:		EC ₅₀	48 hours	-	-	-	-
Algae/aquati	c plants:	IC ₅₀	72 hours	-	-	-	-
Other organi	sms	-	-	-	-	-	-
	sistence a	nd degrad	lability				
	Degradation half-lives		Method		Evaluation	Note	
Marine water	No infor	ormation available		No information available		information lable	-
Fresh water	No information available		ailable	No information available		information lable	-
Air	No infor	mation av	ailable	No information avai		information lable	-
	1						

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

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

12.3. Bioaccumulative potential



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О	ctanol-w	ater partitio	on coeffic	ient (log	Kow)					
Value	Con	centration	рН	°C	N	1ethod	Evalua	ition		Note
No information available		formation ble	-	-	No int	formation ble	No inform available	ation	-	
В	ioconcer	ntration Fac	tor (BCF)							
Value		Spe	cies		Metho	od	Evaluatio	n		Note
No informa available		No informat available	ion	No ii avail	nformati able		lo informatio vailable	on	-	
С	hronic e	cotoxicity								
Va	lue	Dose		oosure time	Spo	ecies	Method	Εv	aluation	Note
Chronic tox	cicity on f	fish LC ₅₀	No infor availa	mation able	No inform availa	nation ir	lo nformation vailable		rmation ilable	-
Chronic tox crustacea (I	-	EC ₅₀	No infor availa	mation able	No inform availa	nation ir	lo nformation vailable		rmation ilable	-
12.4		:1								
	lobility ir									
Kı	nown or	predicted d	istributio	n in envir	ronment	al compartr	nents:			
Sı	urface te	nsion:								
	Value	°C		Concen	tration	N	Method			Note
	o formatio available		ion	No inforr available		No inforr available	ormation			
Δ	dsorntio	n / desorpt	ion							
		D coefficier				Evaporation				
Transport		nry's consta		log Kov	V	Evaporation rate	M	ethod		Note



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Trade n	ame:		PHOSPHO	TUNGSTI	C AC	ID, 5% SOLUTION		
Product	code:	FVK5-OT-X**	Date of com	Date of compilation: 14 November 2023 Version:				
Soil-wa		o information ailable	No information available	No informat available	-	No information available	-	
Water-a		o information ailable	No information available	No informat available		No information available	-	
Soil-air	_	o information ailable	No information available	No informat available	tion	No information available	-	
12.5.	Results	of PBT and vPvB as	ssessment					
						to be either persistent		
	and tox	tic (PBT), or very pe	rsistent and very bi	oaccumul	ative (vPvB) at levels of 0.1%	or higher.	
12.6.	Endocri	ne disrupting prop	erties					
				•		ered to have endocrin		
		ties according to RE ssion Regulation (E				elegated regulation (E	EU) 2017/2100 or	
	Commi	ssion Regulation (L	0) 2010/003 at leve	213 01 0.170	OI III	grier.		
12.7	Otherne	alvanas affaata						
12.7.		dverse effects						
	No info	rmation available						
		sposal consideration	ons					
13.1.	Waste t	reatment methods						
	4							
13.1.1.	Produ	ict/Packaging dispo	sal:					
	Subm Proted		e legal person auth	norized by	the M	linistry of Environmen	tal and Nature	
13.1.2.		e codes/waste desig						
	Dispo	sal must be made a	according to officia	l regulatio	ns.			
13.1.3.	Waste	/aste treatment – relevant information:						
	No inf	formation available						
13.1.4.	Sewac	ge disposal – releva	nt information:					
		must not be dispo		vage syste	m.			
13.1.5.	Other	disposal recomme	ndations:					



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Trade name:		PHOSPHOTUNGSTI	C ACID, 5% SOLUTION		
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2023	Version:	6

	authorized by the ministry in	ct's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. collectors authorized by the ministry in charge.
13.1.6.	Relevant Community provision	ons:
	-	
	,	
SECTION	N 14. Transport information	
	Transporting/shipment by roa	d (ADR)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing	group:	-
Environn	nental hazards:	-
Special p	precautions for user:	-
	Transporting/shipment by rail	(RID)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing	group:	-
Environn	nental hazards:	-
Special p	precautions for user:	-
	Transporting/shipment by inla	and waterways (ADN)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing	group:	-
Environn	nental hazards:	-
Special p	precautions for user:	-
	Transporting/shipment by sea	(IMDG)
UN number:		Not subject to transport regulations
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing	group:	-
Environn	nental hazards:	-
Special p	precautions for user:	-



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Trade name:		PHOSPHOTUNGSTI	C ACID, 5% SOLUTION		
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·
-
(ICAO-TI/IATA-DGR)
Not subject to transport regulations
-
-
-
-
-

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



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Trade name:					
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2023	Version:	6

	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 assessr	ment
	-	

SECTIO	ON 16.	Other information				
16.1.	Indic	ation of changes:	-			
16.2. Abbreviations and acronyms:			ADR: Accord relatif au transport international des marchandises dangereuses paroute (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:		Manufacturer's MSDS file.			
16.4.		sification and procedu 1/2008 (CLP)	re used to derive the classification for mixture according to Regulation (EC)			
Classifi	cation		Classification procedure			
-			-			
16.5.	Relev	vant H statements (nu	mber and full text)			
	H: 314 315 318 319		Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation.			
16.6.	Train	ing advice:	-			
16.7.	Further information:		"X" in the product code marks different volumes (different packaging of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			



SAFETY DATA SHEET

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

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Trade name:					
Product code:	FVK5-OT-X**	Date of compilation:	14 November 2023	Version:	6

ANNEX: Exposure scenario resulting to Chemical safety assessment	
-	



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Trading name:	REA	F			
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTI	ION 1. Identification of	the substanc	e/mixture a	nd of the company/undertaking			
1.1.	Product identifier						
	Trading name:	REAGENT F	FOR DIFFEREN	NTIATION, VERHOEFF			
	Chemical name:	-	-				
	Catalogue number:	RDV-OT-X	**				
1.2.	Relevant identified us	es of the subs	stance or mix	ture and uses advised against			
	Uses:		For use wit	th special staining kits.			
	Uses advised against:		Only the id	lentified uses are advised.			
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Product Medical Devices and there is no reason to use it for other purp				
1.3.	Details of the supplier	of the safety	data sheet				
	Supplier:	В	ioGnost Ltd.				
	Address:	N	1edjugorska 5	59, Zagreb			
	Telephone number:	+	385 1 240999	97			
	Fax no.:	+	385 1 240403	39			
	e-mail of competent p	oerson: <u>m</u>	nsds@biogno	ost.hr			
	National contact:	-	-				
1.4.	Emergency telephone	number					
	National Protection ar	nd Rescue Dir	ectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:						

SECTIO	SECTION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regular	tion (EC) No 12	.72/2008 (CLP)				
	Hazard class and category	code:	Hazard statements*:				
	Not identified as hazardous substance						
2.1.2.	Additional information						
	-						
*For fu	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16				
2.2.	Label elements						
	Product identification:	REAGENT FO	R DIFFERENTIATION, VERHOEFF				
	Identification number: -						
	Authorization no.:	-					
	Hazard pictograms:	_					



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF						
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

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

SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
10025-77-1/ 600-047-2/ -	-	1 - 2 %	ferric chloride hexahydrate	Acute Tox. 4; H302 Skin Irr. 2; H315 Eye Dam.1; H318			

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



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

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



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF					
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

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

SECTIO	ON 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generat	on:	Secure proper ventilation.			
	Measures to protect the environment: Other measures:		Prevent spilling into the sewage system and waterways.			
7.1.2.			-			
1.1.4.	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:	Kee ven	p in tightly closed and upright set containers in a well tilated storage rooms, and away from sources of heat, light, 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:	be r dire	storage must be made of hard material; floors must resistant to chemicals. There must be no drain that ectly leads into sewage system. Secure proper tilation.			
	Further information on storage conditions:	and che	not place the unused material in the storage room do not use empty containers for storing other micals. Do not store with incompatible materials (see tion 9).			
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF						
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

SECTION 8. Exposure controls/personal protection								
8.1. Control parameters								
Substance CAS No			No			exposure limit term values	Biological limit values	
					ppm	mg/m³		
					-	-	No information available	
Substance name:								
EC No: -		CAS No:	-					
DNEL								
				Inc	lustrial			
Route of	A	Acute		Acut	e	Chronic	Chronic	
exposure:	effe	ect local	effe	ct sys	temic	effect loca	effect systemic	
Oral	-		-			-	-	
Inhalation	-	-		-		-		
Dermal	-		-				-	
Critical physical parar	neters: s	olubility, fla	mmabilit	y, cor	rosivity:	-		
	T		1	Coi	nsumer			
Route of				Acute		Chronic	Chronic	
exposure:	effe	ect local	effe	ct sys	temic	effect loca	effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC					I			
Environmental protect	tion tar	get			PNEC			
Fresh water					No information available			
Freshwater sediments					No information available			
Marine water					No information available			
Marine sediments					No information available			
Food chain					No information available			
Microorganisms in sewage treatment					No information available			
Soil (agricultural)					No information available			
Air					No infor	mation availabl	e	



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF					
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8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent exponduring 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 pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	ment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) o visor.				
8.2.2.2.	Skin protection					
	Hand protection:		ctive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long 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 exposure:		See Section 6			
	Structural measures to pr exposure:	event	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			

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



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF			
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Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lover and upper explosion limit: Flash point: Auto-ignition temperature: No information available	Kinematic viscosity:	No information available	No information available
Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lover and upper explosion limit: No information available	рН:	No information available	No information available
Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lover and upper explosion limit: No information available	Decomposition temperature:	No information available	No information available
Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: No information available	Auto-ignition temperature:	No information available	No information available
Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: No information available	•		No information available
Melting point / freezing point: Boiling point or initial boiling point and boiling range: No information available			
Melting point / freezing point: Boiling point or initial boiling point and boiling range: No information available No information available No information available		No information available	No information available
Melting point / freezing point: No information available	Flammability:	No information available	No information available
Melting point / freezing point: No information available			
	9.	No information available	No information available
		No information available	No information available
and the state of t			
			No information available
Colour: yellow No information ava			

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

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



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Trading name:	REA	GENT FOR DIFFERENT	IATION, VERHOEF	F	
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Product code:	RDV-OT-X**	Date of	compilation:	21 Dec 2	022	Version: 4
Route of exposure:	oute of Method Species		Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}		osure tim	e Results
Oral exposure:	No information available	_	LD ₅₀		_	-
Dermal exposure:	No information available	-	LD ₅₀		-	-
Inhalation exposure:	No information available	-	LC ₅₀		-	-
Specific ta	rget organ toxicity – sin Specific	gle exposure (:		organ		Note
Oral exposure: No information			No informa		-	Note
Dermal exposure:	No information a	vailable	available No information available	tion	-	
Inhalation exposure: No information		available No information available		tion	-	
Respirator	y irritation:	No infor	mation available			
Irritation a	and corrosion					
	Exposure time	Species	Evalua	ntion	Met hod	Note
Skin irritation:	-	-	-		-	-
Eye irritation:	_	_	_		-	_

Skiii iiiitatioii.	
Eye irritation:	
Sensitizatio	n
Dermal exposure:	No information available
Inhalation exposure:	No information available
Symptoms	related to the physical, chemical and toxicological characteristics
Oral exposure:	No information available
Dermal exposure:	No information available
Inhalation exposure:	No information available
Eye exposure:	No information available



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF				
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	D	ose	Exposure time	Species		Method	Evaluation	1	Note
Subacute oral	No inf	formation e	No information available	No information available	on	No information available	No information available	on	-
Subacute dermal	No inf availabl	formation e	No information available	No information available	on	No information available	No information available	on	-
Subacute inhalation	No inf availabl	formation e	No information available	No information available	on	No information available	No information available	on	-
Subchronic oral	No inf availabl	formation e	No information available	No information available	on	No information available	No information available	on	-
Subchronic dermal	No inf availabl	formation e	No information available	No information available	on	No information available	No information	on	-
Subchronic inhalation	No inf availabl	formation e	No information available	No information available	on	No information available	No information	on	-
Chronic oral	nronic oral No information available		No information available	No information	on	No information available	No information	on	-
Chronic dermal	No inf	formation e	No information available	No information	on	No information available	No information	on	_
Chronic No information inhalation available			No information available	No information	on	No information available	No information available	on	-
6				(67					
Specific	target or		y – repeated e pecific effects	xposure (S	IOIR	.E): Target orga	an .		Note
Subacute oral			tion available		No information available			_	INOLE
		tion available		No information available			_		
		tion available		No information available			_		
Subchronic oral			tion available		No information available			_	
Subchronic derm	nal N	No informa	tion available		No information available		-		
Subchronic inhal	ation N	No informa	ition available		No ir	nformation avai	lable	-	
Chronic oral	1	No informa	tion available		No ir	nformation avai	lable	_	



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF			
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

Chronic	dermal	No informa	tion available	No information available	-		
Chronic	inhalation	No informa	tion available	No information available	-		
	1						
	CMR effects	(carcinogenicity	, mutagenicity, rep	roductive toxicity)			
	Carcinogenic	ity:	Based on avail	able data, the classification criteria a	are not met.		
	Mutagenicity	ı in-vitro:	Based on avail	able data, the classification criteria a	are not met.		
	Genotoxicity:	•	Based on avail	able data, the classification criteria a	are not met.		
	Mutagenicity	in-vivo:	Based on avail	able data, the classification criteria a	are not met.		
	Germ cell mu	ıtagenicity:	Based on avail	able data, the classification criteria a	are not met.		
	Reproductive	e toxicity:	Based on available data, the classification criteria are not met.				
11.2	Information of	on other hazard	ds:				
11.2	Information of	on other hazard	ls:				
11.2.1.	Endocrine disrupting properties:						
	contain cor have endocr according to Commission 2017/2100 c	ance/mixture mponents con rine disrupting o REACH Artic Delegated reg or Commission 05 at levels	properties cle 57(f) or ulation (EU) Regulation				
	-						
11.2.2.	Other inform	ations:					

SECTION	12. Ecc	logical inf	ormation
----------------	---------	-------------	----------

12.1. Toxicity

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



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Trading name:	REA	GENT FOR DIFFERENT	ATION, VERHOEF	F	
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

12.2. Persistence and degradability

Abiotic degradation

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

Biodegradation

% 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	-



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF				
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Produ	ict code:	RDV-C	/1-X		Date	of compilati	on: 21 Dec	2022	Versior	1: 4
	Rioconco	ntration f	actor (BCF)							
-	Value	iiuau011 la	Species		N A	ethod	Evaluation		Note	
	ormation	No	inform	ation	No infor		No information	nn -	NOLE	
availak		availabl		iation	available		available	No i	nformation	available
	Chronic e	cotoxicity	,							
	Value		Dose		osure ime	Species	Method	Evalı	uation	Note
Chron	ic toxicity or	n fish	LC ₅₀	No infor availa	mation	No information available	No information available	No info availabl	rmation e	-
	ic toxicity or cea (<i>Daphni</i>		EC ₅₀	No infor availa	mation	No information available	No information available	No info availabl	rmation e	-
12.4.	Mobility i	n soil								
	Known or	predicted	distributi	on in e	environme	ntal compart	ments:			
	No inforn	nation ava	ailable							
	Surface to	ension:								
	Value		°C	C	oncentrati	on	NA d l			
	No information	No			oncentiati	OH	Method		Not	е
	available	on info	rmation ilable		information in the second seco		ormation	-	Not	e
		on info			informati	on No inf	ormation	-	Not	e
		on info avai	ilable		informati	on No inf	ormation	-	Not	e
Transp	Adsorptio	on info avai	ption	ava	informati	on No inf availab	ormation	-	Not	Note
Transp Soil-w	Adsorption of House	on info avai on / desor A/D coeffi denry's co	ption	lo	information ilable og Kow	on No inf availab Evap	formation ole	No i	Method nformation	
	Adsorption Oort H Pater No avail	on info avai on / desor A/D coeffi denry's co inf	ption icient nstant	lo No ir availa	information nilable og Kow nformation nformation	Evap	formation pole	No i avail	Method nformation	



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Trading name:		REAGENT FOR DIFFERENTIATION, VERHOEFF							
Produc	t code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4			
12.5.	Results of	PBT and vPvB assessm	ent						
	according		contain components considere or Commission Delegated reg ls of 0.1% or higher.			•			
12.6.	Endocrine	disrupting properties							
	according		contain components considere or Commission Delegated reg ls of 0.1% or higher.			•			
12.7.	Other adve	erse effects							
	No inform	ation available							
		osal considerations							
13.1.	Waste tr	eatment methods							
13.1.1.	Product/	Packaging disposal:							
		or disposal to the lega	l person authorized by the Mir	nistry of Environmer	ntal and Natur	e			
13.1.2.	Waste co	odes/waste designation	ns according to Law:						
		mation available	<u> </u>						
13.1.3.	Waste tr	eatment – relevant info	ormation:						
	No infor	mation available							
13.1.4.	Sewage	disposal – relevant info	ormation:						
		•	f into the sewage system.						
	ē .								
13.1.5.	Other di	sposal recommendatio	ns:						
	authorize the pack	ed by the ministry in cl	s remains into the sewage syst harge. Do not dispose of the pa authorized by the ministry in a	ackaging into the se	ewage system	. Submit			
13.1.6.	Relevant	Community provision	s:						



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF				
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

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



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF				
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

Special precautions for user: -					
Further information:	-				

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

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



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF				
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

Α	NI	N		v.	
_	14	14	ᆫ	Л.	•

Exposure scenario resulting to Chemical safety assessment

-



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

SECTI	ON 1. Identification of	the substa	nce/mixture	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	SODIUM	1 THIOSULFATE	E, 5% SOLUTION	
	Chemical name:	-	-		
	Catalogue number:	NT5-OT	5-OT-X**		
1.2.	Relevant identified us	es of the su	ubstance or mi	xture and uses advised against	
	Uses:		For use with	special staining kits.	
	Uses advised against:	Uses advised against:		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	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	oerson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection a	nd Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	

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



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

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

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

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



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

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

SECTIO	SECTION 5. Firefighting measures						
5.1.	Extinguishing media						
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam					
	Unsuitable extinguishing media:	water jet					
5.2.	Special hazards arising from the 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, protect	ve equipment and emergency procedures				
6.1.1.	For non-emergency personne					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Wear protective equipment (see Section 8).					
6.2.	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3.	Methods and material for containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.				



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

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

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



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

SECTION 8. Exposu	re contr	ols/persona	l protec	tion				
8.1. Control par		013, per30110	ii protee					
			cupational exposure limit alues/short term values		Biological limit values			
			k		pm	mg/m³		
				-	-	No information available		
Substance name:								
EC No: -		CAS No:	-					
DNEL								
				Ind	ustrial			
Route of	A	Acute		Acute		Chronic	Chronic	
exposure: eff		ect local	effe	ct syst	emic	effect local	effect systemic	
Oral						-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
Critical physical para	meters: s	solubility, fla	mmabilit	ty, corr	osivity:	-		
	1		ı	Con	sumer			
Route of exposure:		Acute ect local	effe	Acute fect systemic		Chronic effect local	Chronic effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC								
Environmental prote	ction tar	get			PNEC			
Fresh water					No information available			
Freshwater sediment	:S				No information available			
Marine water					No information available			
Marine sediments					No information available			
Food chain					No infor	mation available		
Microorganisms in sewage treatment					No information available			
Soil (agricultural)					No information available			
Air				No information available				



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

8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prexposure:	event	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	oment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection				
			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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Trading name:	S			
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Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available
Other information		

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

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



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

Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure: No information available		-	LD ₅₀	-	-
Inhalation No information exposure: available		-	LC ₅₀	-	_
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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Trading name:				
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

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



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

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

SECTION 12. Ecological information

Toxicity 12.1.

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



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

12.2. Persistence and degradability

Abiotic degradation

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

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DIU.	ecnac	iaucii

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

12.3. Bioaccumulative potential

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

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

Bioconcentration factor (BCF)



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



Trading name:

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

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12.5.	Results of	PBT and vPvB assessm	ent								
	according		contain components considere or Commission Delegated regules els of 0.1% or higher.			•					
12.6.	Endocrine disrupting properties										
	according		contain components considere or Commission Delegated reguls rels of 0.1% or higher.			•					
12.7.	Other adv	verse effects									
12.7.		verse effects nation available									
12.7.											

13.1.	Waste treatment methods

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

13.1.2. Waste codes/waste designations according to Law:

No information available

13.1.3. Waste treatment – relevant information:

No information available

13.1.4. Sewage disposal – relevant information:

Waste must not be disposed of into the sewage system.

13.1.5. Other disposal recommendations:

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

13.1.6. Relevant Community provisions:



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



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Special precautions for user:		-
Further information:	-	

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorization and/or rest	rictions of use		
	Authorizations: -			
	Restrictions:	-		
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);		
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-quideline)			
	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 used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classifi	cation	Classification procedure		
-		-		
16.5.	Relevant H statements (numb	er and full text)		
	H: -	-		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

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Exposure scenario resulting to Chemical safety assessment

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