

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



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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	e and of the company/undertaking		
1.1	Product identifier					
	Trading name:	ACETIC ACI	D, 0.5% S	OLUTION		
	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:	The product is intended for use only as an <i>in vitro</i> diagnostic medianst: device, registered at the Agency for Medicinal Products and Medianster 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	st Ltd.		
	Address:		Medjug	Medjugorska 59, Zagreb		
	Telephone number:		+385 1	2409997		
	Telefax.:		+385 1	2404039		
	e-mail of competent p	erson:	msds@l	piognost.hr		
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection an	nd Rescue Dire	ectorate:	112		
	Medical information:			-		
	Other information:			-		

SECTIO	CTION 2. Hazards identification					
2.1	Classification of the substance	Classification of the substance or mixture				
2.1.1	Classification according to Reg	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and catego	ory code:	H	azard statements*:		
	Not identified as hazardous sul	ostance.	-			
2.1.2.	Additional information	Additional information				
	-					
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	ACETIC ACID, 0.	5% SOLUTION			
	Identification number: -					
	Authorization 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. Con	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
64-19-7/ 200-580-7/ 607-002-00-6	-	0.5%	acetic acid, glacial 99%	Flam. Liq. 3; H226 Skin Corr. 1A; H314		

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



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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			
	-			

SECTI	SECTION 5. Firefighting measures						
5.1	Extinguishing media	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 o	compressed air breathing apparatus and fireproof clothing.					
5.4	Additional information						
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated firefighting water separately. Do not extinguishing media.					

SECTIO	ION 6. Accidental release measures				
6.1	Personal precautions, protective	equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members 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 ca (see Section 8).	se 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 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	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	on:	Secure proper ventilation.		
	Measures to protect the environment:	asures to protect the environment:			
	Other measures:		Protect against electrostatic charges.		
7.1.2.	. Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in well ventilated storage rooms at temperatures rang from 15 to 25 °C. Protect from heat and direct sunli			
	Packaging materials:	Manufactı	urer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the contained tightly closed.			
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.		



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	Further information on storage condition	••	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 Control pa	arameters						
Substance		CA	S No		•	exposure limit term values	Biological limit values
					ppm	mg/m³	
Acetic acid		64	-19-7		10/20	25/50	-
Substance name:							
EC No:	<u> </u>	CAS No	:	_			
DNEL	i						
				Inc	dustrial		
Route of	Acı	ıte		Acute		Chronic	Chronic
exposure:	effect	local	effe	effect systemic effect local		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		_		-
Critical physical par	rameters: s	solubility,	flamm	ability, cor	rosivity:	-	
				Co	nsumer		
Route of	Acı			Acute		Chronic	Chronic
exposure:	effect	local	effe	ct systemi	С	effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		_		-
PNEC				,			
Environmental prot	tection tar	get			PNEC		
Fresh water				no information available			
Freshwater sedime	nts				no information available		
Marine water					no inform	nation available	
Marine sediments					no inform	nation available	



Food chain

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no information available

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	Jod Chairi	110 IIII0IIIIatioii availabic		
Microorga	anisms in sewage treatment		no information available	
Soil (agric	cultural)		no information available	
Air			no information available	
0.2				
8.2	Exposure controls			
8.2.1.	Appropriate engineering controls			
	Substance/mixture related measur prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to prevent exposure:		In accordance with Section 7.	
	Organisational measures to prevent exposure: 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. Secure stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment			
8.2.2.1.	Eye and face protection:	n: Safety glasses that stick to face (EN 166) or visor in levels of concentration in air; protective gas mask t entire face in case of higher levels of concentration		
8.2.2.2.	Skin protection			
	·		e protective gloves have to satisfy the specification of egulation (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	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 chemical 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 GV	
8.2.2.4.	Thermal hazards:	No info	ormation available	
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Se	ction 6	



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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 o	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
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	0.85 – 0.9	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
).2	Other information		

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



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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 o	classes as defined in	n Regulation	(EC) No 1272/	2008			
Acute tox	cicity:							
Route of exposure:	Method Species		Dose LD₅ ATE		Exposure tim	ne Results		
Oral:	-	No information available	-		lo information vailable	-		
Dermal:	ral: - No informaravailable		-		lo information vailable	-		
Inhalation:	nhalation: - No informa available				lo information vailable	-		
C:t:- +		visit v single some	(CTOT CI	-\.				
Specific t	Specific target organ toxicity – single e Specific effects			Target org	ıan	Note		
Oral:		tion available	No in	formation ava		-		
Dermal:		tion available		No information available -				
Inhalation:	No informa	tion available	No in	formation ava	_			
Aspiration	n hazard:	No	o information	available.				
Irritation	and corrosion							
	Ехро	osure time	Species	Evaluation	Method	Note		
Skin corrosion/irritation	n: -	-		-	-	-		
Serious eye damage/irritation	-	-		-	-	-		
Sensitizat	ion							
Skin sensitization:	.1011							
JAIII JEIIJILIZALIUII.	-							



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Oral exposure:		Harmful if sw	allowed.						
Dermal exposure	: :	Harmful if ab	sorbed through skin. May cause skin irritation.						
Inhalation expos	ure:	Harmful if in	naled. May cause respiratory tract irritation.						
Eye exposure:		May cause e	e irritation.						
Repeate	ed dos	e toxicity (sub	acute, subchro	onic, chronic)					
		Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral		information lable	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	-		
Subchronic inhalation			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	hronic dermal No information available		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	te oral	No information available			No information available	_		
	te dermal	No information available			No information available	_		
	te inhalation	No information available			No information available	_		
	Subchronic oral No information availab				No information available	_		
	onic dermal	No information available			No information available	_		
	onic inhalation	No information available			No information available	_		
Chronic		No information available			No information available	_		
	dermal	No information available			No information available	_		
	inhalation	No information available			No information available	_		
CHIOTIC	IIIIaiatioii	140 IIIIOIIIIatioii available			No information available			
	CMR effects (c	arcinogenicity; mutagenicity	/: reproduc	tive t	oxicity)			
	Carcinogenicity	<u> </u>	Based on available data, the classification criteria are not met.					
	Mutagenicity <i>in vitro</i> :				ble data, the classification of			
	Genotoxicity:	, , , , , , , , , , , , , , , , , , , ,			ble data, the classification of			
	Mutagenicity i	a vivo:	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.					
	Germ cell muta							
	Reproductive t							
	Reproductive	Oxicity.	bused on	avana	ble data, the classification c			
	Summary of properties:	evaluation of the CM	CMR Based on available data, the classification criteria are not met.					
11.2.	Information or	other hazards:						
11.2.1.		upting properties:						
	Based on avai	dased on available data, does not contain and docrine disruptors.						
11.2.2.	Other informat	ion:	•					
	-							

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



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No information No available avai		No infavailable	formation	No information available	No informatio	on	No inf	formation ble
% Degradation	n	Time (c	lays)	Method	Evaluatio	on		Note
Biodeg	ıradatio	 on						
Soil	No ir	No information available		No information available	No information	on	-	
Air	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	No information available		
Marine water	No ir	nformation a	vailable	No information available	No information	on	_	
	De	gradation ha	alf-lives	Method	Evaluatio	on		Note
Abiotic								
12.2 Persist	ence ai	nd degradab	oility					
Other organisms				-	-	-		-
Algae/aquatic plants		IC ₅₀	72 hours	No information available	No information available	No information available		-
Crustacea: EC ₅₀		48 hours	No information available	No information available	No inforn availa	nation ble	-	
Fish	ish LC ₅₀ 96 hours		No information available	No information available	No inforn availa	nation ble	-	
Chronic (long-toxicity	Chronic (long-term) Dose Exposure time		Species	Method	Evalu	ıation	Note	
Other organism	S	-	-	-	-	-		-
Algae/aquatic plants		IC ₅₀	4 days	No information available	No information available	No inforn availa	nation ble	-
Crustacea: EC ₅₀ 48 hours		No information available	No information available	No inforn availa	nation ble	-		



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Produ	ct code:	OK05-OT-X*	k	Date	e of cor	mpilatio	on: 23 Dec	2022		Version:	3
12.3		lative potential		/I I/	`						
Valu	-	ater partition concentration	pH	°C		ethod	Evalu	ation		Note	
- Vall	Je Con	icentration	- -		-	etriou	- Evalu	ation	_	Note	
			_				_				
	:	:	:	:			i		:		
	Bioconcent	tration factor (B	CF)								
\	/alue	Specie	S	ľ	Method		Evaluati	on		Note	
	No information No available avail		ormation	No info	ormatio	n	No informati available	on	-		
avaiiab	16	available		availab	716		available				
	į			<u> </u>			i		<u> </u>		
	Chronic ec	otoxicity									
	Value	Dose		oosure	Spe	ecies	Method	Eval	uation	Note	<u>,</u>
			No	ime	No .		No	No			
Chroni	c toxicity on	fish LC ₅₀	infor	mation	inforn	nation	information	inforn	nation	-	
			avail	able	availa	ble	available	availa	ble		
	c toxicity on	EC ₅₀	No infor	mation	No inforn	nation	No information	No inforn	nation	-	
crustac	cea (<i>Daphnia</i>)		avail	able	availa	ble	available	availa	ble		
12.4	Mobility in				, ,						
	•	oredicted distrib ation available	oution in e	environn	nental c	ompart	ments:				
	Surface ter										
	Value	°C	С	oncentra	ation		Method			Note	
	No information available	No informatio available	n No		information No information		-				
	Adsorption	/ desorption									



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Transpor	rt í	oefficient s constant	log Kow	Evaporation rate	Method	Note
Soil-wate	er No available	information	No informati on available	No information available	No information available	-
Water-ai	r No available	information	No informati on available	No information available	No information available	-
Soil-air	No available	information	No informati on available	No information available	No information available	-
12.5	Results of PBT					
	Based on availa	able data, the p	product doe	s not contain any PBT or	vPvB substances.	
12.6.	Endocrine disru	upting properti	ies			
	Based on availa	able data, does	not contain	endocrine disruptors.		
12.7.	Other adverse	effects				
	No information	n available				
SECTION	N 13. Disposal	consideration	S			
13.1		nent methods				
13.1.1.	Product/Pack	kaging disposa	l:			
		<u> </u>		authorized by the Minist	ry of Environmental	and Nature
13.1.2.	Waste codes	/waste designa	ntions accord	ding to Law:		
	15 01 10*: Pa substances	ckaging that c	ontains resid	dual hazardous substance	es or is contaminated	d with hazardous
13.1.3.	Waste treatm	nent – relevant	information	:		
		on available				



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13.1.4.	Sewage disposal – relevant information:					
	Waste must not be disposed of into the sewage system.					
13.1.5.	Other disposal recommendations:					
	authorized by the ministry in o	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.				
13.1.6.	Relevant Community provision	ns:				
	-					
SECTION	14 TRANSPORT INFORMATION	ON				
-	Transporting/shipment by road	(ADR)				
UN numb	oer:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	: hazard class(es):	-				
Packing g	ıroup:	-				
Environm	entally hazardous:	-				
Special precautions for user:		-				
-	Transporting/shipment by rail (RID)					
UN number:		Not subject to transport regulations				
UN proper shipping name:		-				
Transport	t hazard class(es):	-				
Packing g	roup:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
I	nland waterway transport (ADN)				
UN numb	oer:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	t hazard class(es):	-				
Packing g	ıroup:	-				
Environmentally hazardous:		-				
Special precautions for user: -						
-	Transporting/shipment by sea (I	MDG)				
UN numb	per:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport hazard class(es):		-				



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

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

SECTI	DN 15. Regulatory information						
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% SOLUTION					
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		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;
	Other EU regulations:	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	

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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Trading name:	ACETIC ACID, 0.5% SOLUTION					
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16.3.	•	literature references and rce of data:	-	
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classific	catior	1	Classification procedure	
-			-	
16.5.	Relevant H statements (num		per and full text)	
	226 Flammable liquid and vapour.		Flammable liquid and vapour.	
	H:	314	Causes severe skin burns and eye damage.	
16.6.	Training advice:		-	
			** "X" in the product code marks different volumes (different packagings of the product)	
16.7.	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	



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

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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

1.1.	Product identifier					
	Trading name:	ALCIAN	CIAN BLUE SOLUTION pH 2.5			
	Chemical name:	-				
	Catalogue number:	AB2-O	T-X**			
1.2.	Relevant identified use	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		For staining ac	cid mucopolysaccharides of intestinal goblet cells.		
	Uses advised against:		Only the ident	ified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent person:		msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone	number				
	National Protection ar	National Protection and Rescue D		112		
	Medical information:			+385 1 2348 342		
	Other information:			_		

SECTIO	CTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-stat	ements: see S	ection 16		
2.2.	Label elements				
	Product identification:	ALCIAN BLUE	SOLUTION pH 2.5		
	Identification number: -				
	Authorization no.: -				
	Hazard pictograms:	-			



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

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Trading name:		ALCIAN BLUE SOLU	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	TION 4. First aid measures				
4.1.	Description of first aid mea	sures			
	General notes:		-		
	Following inhalation:		No information available		
	Following skin contact:		No information available		
	Following eye contact:		No information available		
	Following ingestion:		No information available		
	Self-protection of the first	aider:	Treat symptomatically.		
4.2.	Most important symptoms	and ef	fects, both acute and delayed		
	Following inhalation:	No	information available		
	Following skin contact:	No	information available		
	Following eye contact:	No	information available		
	Following ingestion:	No	o information available		
4.3.	Indication of any immediate medical attention and special treatment needed				
	-				

SECTI	N 5 Firefighting measures	
5.1.	Extinguishing media	



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Trading name:	ALCIAN BLUE SOLUTION pH 2.5				
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	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	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:			
		ose of in sewage, drainage system and waterways. In case of large spillage contact National nd Rescue Directorate (NPRD) on 112.		
6.3.	Methods and material for co	ntainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	-		
6.4.	Reference to other sections			



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

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



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										rage 5 or 10
Trading na	me:				ALCI	AN BLUE	SOLU	ΤΙΟΝ β	H 2.5	
Product co	de:	AB10-O	T-X**		Date o	of compila	ition:	21 De	ec 2022	Version: 6
	:			:					T	, ,
-			-			-		-	No inforr	nation available
Substance	_									
name:							1			
EC No:	-		CAS No:	-						
DNEL										
						dustrial				T
Route of			Acute		Acut			Chro		Chronic
exposure:		етте	ect local		ffect sys	stemic		effect	locai	effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal	نادما ممدد	-	ماريانان اور	-	:1:+	rocivity.	-			-
Critical phys	icai para	ameters: s	Solubility, fla	ammab			,	-		
D ((Τ,	\ ct.a			nsumer		Chro	nia	Chronic
Route of exposure: ef			Acute ect local	Acut effect sys			Chronic effect loca			effect systemic
Oral		-	et local	-		-		Осиг	-	
Inhalation		_		_			-			_
Dermal		_		_			_			_
PNEC										
Environmen	tal prote	ection tar	get			PNEC				
Fresh water	<u> </u>	•	<u> </u>			No infor	mation	availab	le	
Freshwater s	sedimen	ts				No infor				
Marine wate	er					No infor	mation	availab	le	
Marine sedii	ments					No infor	mation	availab	le	
Food chain						No infor	mation	availab	le	
Microorgani	isms in s	ewage tr	eatment			No infor	mation	availab	le	
Soil (agricult						No infor	mation	availab	le	
Air						No infor	mation	availab	le	
8.2.	Exposu	re contro	ls							
8.2.1.	Approp	riate eng	ineering co	ntrols						
	measur		re related vent exposu uses:	Ire :		•				se personal protective ne workspace.
	Structu		ires to preve	ent	No info	rmation a	vailable	9		



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Trading name:		ALCIAN BLUE SOLU	TION 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 pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equi	oment					
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection						
			ctive gloves must be according to the EU Directive 2016/425/EEC and eard EN 374.				
	Hand protection:		Glove material: nitrile rubber				
			Glove thickness: ≥0.50 mm				
		Break through time: >480 min					
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) values (EN 13034), and shoes that cover the entire foot (EN 103					
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No inf	ormation available				
8.2.3.	Environmental exposure	controls					
	Substance/mixture relate measures to prevent exp		See Section 6				
	Structural measures to prescribe exposure:	event	Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
Technical measures to prevexposure:			See Section 6				

SECTI	SECTION 9. Physical and chemical properties								
9.1.	Information on basic physical and che	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
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	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	ECTION 10. Stability and reactivity					
10.1.	Reactivity:	See subsections 10.3 through 10.5.				
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.				
10.3.	Possibility of hazardous reactions:	No information available.				
10.4.	Conditions to avoid:	No information available.				
10.5.	Incompatible materials:	No information available.				
10.6.	Hazardous decomposition products:	No information available.				

SECTION 11. Toxic	SECTION 11. Toxicological information										
11.1. Information on toxicological effects											
Acute toxic	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 SOLUTIO						TION p	H 2.5			
Product code:	AB	10-OT-X**	Da	ate of co	ompilatio	on:	21 De	c 2022	Version	: 6
Inhalation	٨	lo informatior available	۱ -		L	_C ₅₀		-		-
exposure:		avaliable								
Specific	target	organ toxicity	/ – sinale exp	osure (S	TOT SE):					
			cific effects			Targe	t orgar	1	N	lote
Oral exposure:		•	tion available	١	No inform					
Dermal exposure	e:	No informa	tion available	١	No inform	ation	availak	ole -	-	
Inhalation expos	sure:	No informa	tion available	١	No inform	ation	availak	ole -	•	
,		:						;		
Respira	tory irri	tation:	N	lo inforn	nation ava	ailable	9			
Irritatio	n and c	orrosion								
	E	xposure time	Specie	es	Evalu	uatior	1	Method	N	lote
Skin irritation:	-		-	-					•	
Eye irritation:	-		-	-						
Sensitiz	zation									
Dermal exposure	e: No	information	available							
Inhalation	No	information	available							
exposure:										
C				11 #		1 -1-				
Oral exposure:		ited to the ph information a		cai and to	oxicologic	cai cha	aracter	istics		
Dermal exposure.		information								
Inhalation	e. INO		available							
exposure:	No	information a	available							
Eye exposure:	No	information a	available							
	•									
Repeat	ed dose	toxicity (suba	acute, subchro	onic, chr	onic)					
		Dose	Exposure time	Specie	es	Meth	nod	Evaluation	No	ote
Subacute oral	No availa	information able	No information available	No inform availat			matio ailable	No informat available	ion -	
Subacute dermal	No availa	information able	No information available	No inform availat			matio ailable	No informat available	ion -	



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

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

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

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				



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Trading name:		ALCIAN BLUE SOLU	TION 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 CM	1R properties: -						
11.2	Information on other hazards:	Information on other hazards:						
11.2.1.	Endocrine disrupting properties:							
	The substance/mixture does not components considered to endocrine disrupting propaccording to REACH Article 57 Commission Delegated regulation 2017/2100 or Commission Regulation 2018/605 at levels of 0.5 higher.	have perties 7(f) or						
11.2.2.	Other information:							
	-							

SECTION 12. Ecological information									
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 nam	e:				A	LCIAN BLUE	SOL	UTION pH	1 2.5			
Product code	e:	AB10-OT-X*	*		Date of compilation:		21 Dec 2022		Ve	rsion:	6	
Algae/aquatic plants		IC ₅₀	72 ho	urs	No information in			No information available		-	-	
Other organis	ms	-	-		-		-		-		-	
12.2. Persis	stence	e and degradab	ility									
Abiot	tic de	gradation										
	D	egradation hal	f-lives			Method			Evaluat	ion		Note
Marine water	No	information ava	ailable	N	o info	ormation availa	able	No inform	nation a	vailable		-
Fresh water	No	information ava	ailable	N	o info	ormation availa	able	No inform	ation a	vailable		-
Air	No	information ava	ailable	N	o info	ormation availa	able	No inform	nation a	vailable		_
Soil	No	information ava	ailable	N	o info	ormation availa	able	No inform	ation a	vailable		_
	•										<u> </u>	
Biode	egrad	ation										
% Degradatio		Time (days	()		N	Лethod		Evaluatio	n		Note	e
No informatio available	No information No information N								No information available			
		ulative potentia		rater ((log k	(ow):				:		
Value	Cor	ncentration	рН	٥	C	Method		Evaluation		Note		te
_	No availa	information ible	-	-		No information available	on	No inform available	nation	-		
Rioco	ncon	tration factor (E	RCE)									
Value	, icell	Species) (i)		N.	1ethod		Evaluati	ion		No	tο
No information available		•	information No in					Evaluation No information available		Note No information available		
Chroi	nic ec	otoxicity										



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

Produc	t code:	AB10-OT	-X**	Date	mpilatio	ation: 21 Dec 2022		Version	: 6			
	Value		Dose	Exposure time	Spe	ecies	Me	ethod	Evalua	ation	Note	
Chronic	toxicity or	n fish LC	-50			mation able	No infor avail	mation able	No inforr available		-	
Chronic toxicity on crustacea (<i>Daphnia</i>)		-50	information	No infori availa	mation able	No infor avail	mation able	No inforr available	mation	_		
12.4.	Mobility i	n soil								·		
			istributi	on in environme	ental o	compartr	nents	;;				
	No inform Surface te	nation availa ension:	ble									
	Value		°C	Concentrati	ion		Ν	1ethod		Note		
	No No information available available			No information available		formation available			-			
	Adsorptic	on / desorpti	on									
Transpo	ort ,	A/D coefficie lenry's const	ent	log Kow		Evapora	ntion i	rate	Method		Note	
Soil-wa	No information		No information available		n No information available			No informatio available	n -			
Water-a	air No avail		nation	No information available		n No information		intorma:		n -		
Soil-air		No information	No information available		ation		No informatio available	n -				

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

12.6. Endocrine disrupting properties



Trading name:

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The substance/mixture does not contain components of according to REACH Article 57(f) or Commission Deleg Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7. Other adverse effects No information available	
No information available	
SECTION 13. Disposal considerations 13.1. Waste treatment methods	
13.1. Waste treatment methods	
13.1.1. Product/Packaging disposal:	
Submit for disposal to the legal person authorized by Protection.	y the Ministry of Environmental and Nature
13.1.2. Waste codes/waste designations according to Law:	
No information available	
13.1.3. Waste treatment – relevant information:	
No information available	
The information available	
13.1.4. Sewage disposal – relevant information:	
Waste must not be disposed of into the sewage syste	em.
13.1.5. Other disposal recommendations:	
Do not dispose of the product's remains into the sew authorized by the ministry in charge. Do not dispose the packaging to the collectors authorized by the mini- ignition may occur.	of the packaging into the sewage system. Submit
13.1.6. Relevant Community provisions:	
-	
SECTION 14. Transport information	
Transporting/shipment by road (ADR) UN number: Not subject to transport	
UN number: Not subject to transp UN proper shipping name: -	oort regulations.
Transport hazard class(es): -	
Packing group: -	



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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			
Environmentally h	nazardous:	_							
Special precaution	ns for user:	-							
Transpor	ting/shipment by rail	(RID)							
UN number:		No	t subject to transport regu	ılations.					
UN proper shippi	ng name:	-							
Transport hazard	class(es):	-							
Packing group:		-							
Environmentally h	nazardous:	-							
Special precaution	ns for user:	-							
Inland wa	aterway transport (A[ON)							
UN number:		No	Not subject to transport regulations.						
UN proper shippi	ng name:	-							
Transport hazard	class(es):	-							
Packing group:			-						
Environmentally h	nazardous:	-	-						
Special precaution	ns for user:	-							
Transpor	ting/shipment by sea	(IMDG)						
UN number:		No	Not subject to transport regulations.						
UN proper shipping name:			-						
Transport hazard	class(es):	-							
Packing group:		-							
Environmentally h	nazardous:	-							
Special precaution	ns for user	_							

Not subject to transport regulations.

Further information: -

Transporting/shipment by air (ICAO-TI/IATA-DGR)

SECTION 15. Regulatory information

UN number:

Packing group:

UN proper shipping name: Transport hazard class(es):

Environmentally hazardous: Special precautions for user:

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



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

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

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



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16.2.	Abbreviations and acronyms	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classifi	cation	Classification procedure		
_		-		
16.5.	Relevant H statements (num	ber 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:	ALKALINE ALCOHOL, SOLUTION				
Product code:	ALA-OT-X**	Revision date:	22 Dec 2022	Version:	3

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	ALKALINE A	ALKALINE ALCOHOL, SOLUTION		
	Chemical name:	-			
	Catalogue number:	ALA-OT-X*	*		
1.2	Relevant identified us	Relevant identified uses of the substance or mixture and uses advised against			
	Uses:		For use	with Movat kit.	
	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, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone number				
	National Protection and Rescue Directorate:			112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Reg	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and cate	gory code:		Hazard statements*:		
	Flam. Liq. 2		H225			
	Skin Irr. 2		H315			
	Eye Irr. 2		H319			
2.1.2.	Additional information					
	-					
*For ful	full text of Hazard- and EU Hazard-statements: see SECTION 16					
2.2	Label elements					
	Product identification: ALKALINE ALCOHOL, SOLUTION					



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	Identification number:	-		
	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 Properties:			
	No known endocrine disrupting properties			
	Results of PBT and vPvB as PBT or a vPvB.	sessment : According to the results of its assessment, this substance is not a		

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				



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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 e	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.					

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 with full jet					
5.2	Special hazards arising from the s	substance or mixture				
	Hazardous combustion products:	Formation of toxic gases is possible during heating or in case of fire.				



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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.

6.1	Personal precautions, protective equipment and emergency procedures						
6.1.1.	For non-emergency personnel						
	Protective equipment:	Use personal protective equipment (see Section 8).					
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.					
	Emergency procedures:	Mark the area using proper signs.					
6.1.2.	For emergency responders:						
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).						
6.2	Environmental precautions:						
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.						
6.3	Methods and material for containment and cleaning up						
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.					
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 o	n safe handling.					
	See Section 8 for information o	n personal protection equipment.					
	See Section 13 for disposal information.						

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



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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 generatio	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. The	oroughly wa	ash hands after work and before eating.		
7.2	Conditions for safe storage, including any incom	patibilities			
	Technical measures and storage conditions:	well ven	tightly closed and upright set containers in a stillated storage rooms at temperatures from 15 to 25 °C. Protect from heat and unlight.		
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:		p away from food and drink. Keep the containers itly 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:	and do i	place the unused material in the storage room not use empty containers for storing other als. Do not store with incompatible materials ction 10).		
7.3	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	_			

8.1	Control parameters				
	Substance	CAS No		exposure limit t term values	Biological limit values
			ppm	mg/m³	-
Ethano	ı	64-17-5	1000/-	1900/-	-
Ammo	nia	1336-21-6	20/50	14/36	-



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Trading na	me:				ALKA	ALINE	E AL	COHOL, SOLUTIO	N		
Product co	de:	ALA-OT	-X**		Revisi	on da	ate:	22 Dec 2022		Version:	3
•	·		1							:	
EC No:		_	CAS No:	_							
DNEL											
				,	In	dustr	ial				
Route of		Ac	cute		Acute			Chronic		Chronic	
exposure:		effec	t local	effec	t syster	mic		effect local	6	effect systemic	
Oral		-		-			-		-		
Inhalation		1900 mg, (ethanol)		-			-		380 mg	/m³ (ethanol)	
Dermal		-		-			-		343 mg	/kg (ethanol)	
Critical phys	ical par	ameters: s	solubility, fl	ammab	ility, co	rrosiv	ity:	-			
					Co	nsun	ner				
Route of		Ad	cute		Acute			Chronic		Chronic	
exposure:		effec	ct local	effec	t syster	mic		effect local	€	effect systemic	
Oral		-		-			-		87 mg/l	kg bw/day (etha	anol)
Inhalation		950 mg, (ethano		-			-		114 mg	/m³ (ethanol)	
Dermal		-		-			-		206 mg	/kg (ethanol)	
PNEC											
Environment	tal prot	ection tar	get			PNE	C				
Fresh water						0.96	mg/	l (ethanol)			
Freshwater s	sedimer	nts				3.6 r	ng/k	g (ethanol)			
Marine wate	er					0.79	mg/	l (ethanol)			
Marine sedir	ments					2.9 r	ng/k	g (ethanol)			
Food chain						380-	-720 ı	mg/kg (ethanol)			
Microorgani	isms in s	sewage tr	eatment			500	mg/l	(ethanol)			
Soil (agricult	tural)					0.63	mg/	kg (ethanol)			
Air						no ir	nform	nation available			
8.2	Exposu	ire contro	ls								
8.2.1.	Approp	oriate eng	ineering co	ntrols							
			ire related i e during id			prot		product in well venti e equipment. Do no ee.		•	
	Structu		ires to prev	ent		In ac	cord	ance with Section 7			



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	Organisational measures to preve	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	(posure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
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:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	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:	Adapt workpl	the work process to the required working conditions of the ace.		
	Technical measures to prevent exposure:	See Se	ction 6		

SECTIO	ON 9. Physical and chemical prope	rties							
9.1	Information on basic physical and	Information on basic physical and chemical properties							
		Value	Method						
	Physical state:	liquid	No information available						
	Colour:	colourless	No information available						



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	Odour/odour threshold:	mild ammonia like/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	19°C	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	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 (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.

SECTION 11. T	oxicologica	l inform	ation							
11.1 Inforr	nation on to	xicologic	al effects							
Acute	toxicity:									
Route of exposure:	Meth	nod	Species	;	Dose LD ₅₀ /LC ₅₀ ATE _{mix}	or Ex	posure time		Results	
Oral:	-		rat		LD ₅₀		-		7.060 mg/kg (ethanol)	
Dermal:	_		rabbit		-		-		>20.000 mg/l (ethanol)	
Inhalation:	_		rat		LC ₅₀		4 h		>8.000 mg/l (ethanol)	
,										
Speci	fic target or	gan toxic	ity – single e	exposu	re (STOT SE):			:	
		Spe	cific effects	Target organ					Note	
Oral:	No inf	ormatior	available	No information available			/ailable		-	
Dermal:	No inf	ormatior	tion available		No ir	No information available			-	
Inhalation:	No inf	ormation	available	No information available					-	
Aspira	ation hazard	:		No in	formation a	vailable.				
Irritat	ion and corr	osion								
,		Exposu	e time	Sı	pecies	Evaluation	Method		Note	
Skin corrosion/irrita	tion:			-		-	-	-		
Serious eye damage/irritati	on -			-		-	-	-		
Sensi	tization									
Skin sensitization: No information a				/ailable	·.					
Respiratory sensitization: No information a										



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Sympto	oms re	elated to the p	hysical, chemi	cal and toxicologi	cal characterist	ics		
Oral exposure:		No informati	on available.					
Dermal exposure):	No informati	on available.					
Inhalation expos	ure:	No informati	on available.					
Eye exposure:		No informati	on available.					
Repeat	ed do	se toxicity (sul	bacute, subchr	onic, chronic)				
		Dose	Exposure time	Species	Method	Evaluation	n .	Note
Subacute oral		information lable	No information available	No information available	No informatio n available	No inform available	nation	-
Subacute dermal			No information available	No information available	No informatio n available	No inform available	nation	-
Subacute inhalation		information lable	No information available	No information available	No informatio n available	No inform available	nation	–
Subchronic oral		information lable	No information available	No information available	No informatio n available	No information available		_
Subchronic dermal		information lable	No information available	No information available	No informatio n available	No information available		-
Subchronic inhalation		information lable	No information available	No information available	No informatio n available	No inform available	nation	
Chronic oral		information lable	No information available	No information available	No informatio n available	No information available		-
Chronic dermal	Chronic dermal No information available		No information available	No information available	No informatio n available	No inform available	nation	-
Chronic No in inhalation availab		information lable	No information available	No information available	No informatio n available	No information available		-
Specifi	c targe	et organ toxici	ty – repeated (exposure (STOT R	E):		:	
			Specific effec	ts	Target or	gan		Note
Specific Subacute oral	c targ		<u> </u>	its	-		-	Note



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Subacut	acute dermal No information available				No information availab	ole	-
Subacute inhalation No information available Subchronic oral No information available					No information availab	ation available	-
			e		No information available		-
Subchro	onic dermal	No information available			No information availab	ole	-
Subchro	onic inhalation	No information available			No information availab	ole	-
Chronic	oral	No information available			No information availab	ole	-
Chronic	dermal	No information available			No information availab	ole	-
Chronic	inhalation	No information available			No information availab	ole	-
	CMR effects (carcinogenicity; mutagenicit	ty; re	eproductive	toxicity)		
	Carcinogenici	ty:	Bas	ed on availa	ble data, the classificati	on c	riteria are not met.
	Mutagenicity	in vitro:	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. Based on available data, the classification criteria are not met.				
	Genotoxicity:						
	Mutagenicity	in vivo:					
	Germ cell mu	tagenicity:					
	Reproductive	toxicity:					
	Summary of properties:	evaluation of the CM	CMR Based on available data, the classification criteria are no met.				
11.2	Information o	n other hazards:					
11.2.1.	Endocrine dis	rupting properties:					
	No known en that affect hu	docrine disrupting properti man health.	ies				
11.2.2.	Other informa	ation:					

SECTION 12. Ecologic	SECTION 12. Ecological information										
12.1 Toxicity											
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note					
Fish	LC ₅₀	96 hours	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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Algae/aquatic	plants	IC ₅₀	4 days		Pseudokirchner iella subcapitata (green algae)		nformation vailable		00 mg/l / 7d (ethanol)	-
Other organism	ns	-	-	-			-	_		-
Chronic (long- toxicity	onic (long-term) City Dose Exposure time		е	Species	N	1ethod	E	Evaluation	Note	
Fish		LC ₅₀	96 hours		lo information vailable	No ir availa	nformation able		information lable	-
Crustacea:		EC ₅₀	48 hours		lo information vailable	No ir availa	nformation able		information lable	-
Algae/aquatic	plants	IC ₅₀	72 hours		lo information vailable	No ir availa	nformation able		information lable	-
Other organism	ns	-	-	-		-		-		_
Abio		adation gradation h	alf-lives		Method		Evaluation		No	te
		and degrada adation	bility							
Marine water	No ir	No intormation available		No information			nformation		-	
				available		availa				
Fresh water	No ir	nformation a	ıvailable	No information available		_	No informationavailable		-	
Air	No ir	nformation a	ıvailable	No information available		No information - available		-		
Soil	No ir	nformation a	ıvailable		nformation lable	No ir availa	nformation able		-	
Biode	egradat	ion								
% Degradation		Time (c	lays)	× × × × × × × × × × × × × × × × × × ×	Method		Evaluation		No	te
No information available	1 r		formation		information lable	No ir availa	nformation		No informati available	
12.3 Bioac	cumula	ative potenti	al							
		er partition		(loa K	(ow)					
Value		entration	рН	°C	Method		Evaluat	ion	N	ote
	- 330		r '					- '	•	



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Trading	g name:				ALKA	LIN	E ALCOH	IOL, S	OLUTIO	DN			
Produc	Product code: ALA-OT-X**			Revisio	on d	ate:	22 D	ec 2022		Vers	ion:	3	
	Biocon	centratio	n factor (BCF)										
V	/alue		Species		M	letho	d		Evalu	ation		Note	
No info	ormation le	No availa	informat able	tion	No inforr available	matic	on	No ir	nformatio	on available	-		
	Chronic	c ecotoxi	city										
	Value		Dose	Ex	posure time	S	pecies	Мє	ethod	Evaluatio	n	Note	l
Chronic	toxicity o	on fish	LC ₅₀		ormation ilable	1	ormation ilable	No infor avail	mation able	No information available	on -		
	toxicity of toxicity of the control		EC ₅₀		ormation ilable		ormation ilable	No infor avail	mation able	No informatio available	on -		
12.4	Mobilit	y in soil											
			cted distributio	n in e	environme	ental	compartn	nents:					
			available				······································						
	Surface	tension	•										
	Valu	ıe	°C	Cc	oncentratio	on		Metho	od		No	ote	
	No informa availab	ation ir	lo nformation vailable		informatio ilable	on	No infor		n 	-			
	Adsorp	tion / de	sorption										
Transpo	ort		pefficient s constant	I	og Kow	E۱	/aporatior	n rate	ľ	Method		Note	
Soil-wa	ter No		tion available		ormation ilable		o informa [,] railable	tion	No info	ormation le	-		



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Trading name:		ALKALINE ALCO	OHOL, SOLUTION		
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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 assess						
	Based on available data, the p	oduct does not	contain any PBT or	vPvB substances.			
12.6.	Endocrine disrupting propertie	ac					
12.0.	Based on available data, does		locrine disruptors.				
	<u> </u>						
12.7.	Other adverse effects						
	No further relevant informatio	n available.					
	N 13. Disposal considerations						
13.1	Waste treatment methods						
13.1.1.	Product/Packaging disposal:						
	Submit for disposal to the leg	gal person autho	orized by the Minist	ry of Environmental a	nd Nature		
13.1.2.	Waste codes/waste designati	ons according t	o Law:				
	Packaging that contains resid	ual hazardous s	substances or is con	taminated with hazar	dous substances		
13.1.3.	Waste treatment – relevant ir	formation:					
	No information available						
13.1.4.	Sewage disposal – relevant in	formation:					
	Waste must not be disposed	of into the sewa	age system.				
13.1.5.	Other disposal recommendat	ions:					
	Do not dispose of the production authorized by the ministry in the packaging to the collectors.	charge. Do not	dispose of the pack	aging into the sewag			
13.1.6.	Relevant Community provision	the packaging to the collectors authorized by the ministry in charge.					



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

Disposal must be made accord	ing to official regulations.
SECTION 14 TRANSPORT INFORMATIO	
Transporting/shipment by road	
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 (F	RID)
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	1)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (I	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	CAO-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: -	

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations						
	Authorization and/or res	trictions of use					
	Authorizations:	-					
	Restrictions:	-					
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation an Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EE 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 200 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 amendin Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safet of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 1 December 2008 on classification, labelling and packaging of substances and mixture 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)	999/13/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 an 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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None		
None		

SECTIO	N 16	5. Other information				
16.1	Ind	dication of changes:	-			
16.2			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.		y literature references and urce of data:				
16.4.		Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	catio	n	Classification procedure			
-			-			
16.5.	Re	elevant H statements (num	ber and full text)			
		225	Highly flammable liquid and vapor.			
		314	Causes severe skin burns and eye damage.			
	Н	315	Causes skin irritation.			
	:	319	Causes serious eye irritation.			
		400	Very toxic to aquatic life.			
16.6.	Tra	aining advice:	-			
16.7.	5.7. Further information: i		** "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.			

4	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		

1.1.	Product identifier					
	Trading name:	BIEBRIC	CH SCARLET-AC	ID FUCHSIN REAGENT		
	Chemical name:	-				
	Catalogue number:	BSAF-C)T-X**			
1.2.	Relevant identified use	s of the s	substance or mi	xture and uses advised against		
	Uses:		For use with	special staining kits.		
	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 of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:	Fax no.:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection an	National Protection and Rescue Direct		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 Regu	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and catego	ry code:	Hazard statements*:			
	Not identified as hazardous sub	stance.	-			
2.1.2.	Additional information	Additional information				
	-					
*For fu	ıll text of Hazard- and EU Hazard-s	tatements: see S	Section 16			
2.2.	Label elements					
	Product identification:	BIEBRICH SC	ARLET-ACID FUCHSIN REAGENT			
	Identification number: -					
	Authorization no.:	-				
	Hazard pictograms:	_				



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
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	Signal word:	-				
	Hazard statements:	-				
	Precautionary statements:	-				
	Further information:	-				
2.3.	Other hazards					
	Endocrine Disrupting Propert	ies:				
	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 no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
-	-	-	Contains no hazardous substances	-			

SECTI	FION 4. First aid measures				
4.1.	Description of first aid mea	asures			
	General notes:		-		
	Following inhalation:		No information available		
	Following skin contact:		No information available		
	Following eye contact:		No information available		
	Following ingestion:		No information available		
	Self-protection of the first	aider:	Treat symptomatically.		
4.2.	Most important symptoms and effe		fects, both acute and delayed		
	Following inhalation:	No i	information available		
	Following skin contact:	No i	information available		
	Following eye contact:	No i	information available		
	Following ingestion:	No i	No information available		
4.3.	Indication of any immedia	te medi	cal attention and special treatment needed		
	-				

SECT	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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	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	,l			
	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:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Na Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for cor	ntainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	-			
6.4.	Reference to other sections				
	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:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT			
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SECTIO	TION 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.				
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. T	horoughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any inco	mpatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.				
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).				
7.3.	Specific end use(s)					
_	Recommendations:	-				
	Industrial sector specific solutions:	-				

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				
-	-	-	-	No information available			
Substance - name:							



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Product cod	Product code: BSAF-OT-X** Date of		of compila	ition:	21 Dec 2022	Version: 4	
Γ		1					
EC No:	-	CAS No:	-				
DNEL							
_	Industrial						
Route of exposure:		Acute effect local	Acut			Chronic effect local	Chronic effect systemic
Oral		effect local	effect sys	iternic	_	enectiocal	- enect systemic
Inhalation		- _	- _		_		
Dermal		1-	-		_		
	ical para	 ameters: solubility, fl	ammahility cor	rocivity	_		<u> </u>
Citical physi	icai paid	ameters. Solubility, II	<u> </u>	nsumer			
Route of		Acute	Acut			Chronic	Chronic
exposure:		effect local	effect sys			effect local	effect systemic
Oral		-	-		-		-
Inhalation		-	-		-		-
Dermal		-	-		-		-
PNEC							
Environment	tal prote	ection target		PNEC			
Fresh water				No information available			
Freshwater s	edimen	ts		No infor	mation	available	
Marine wate	r			No infor	mation	available	
Marine sedir	ments			No infor	mation	available	
Food chain				No infor	mation	available	
Microorgani	sms in s	sewage treatment		No infor	mation	available	
Soil (agricult	ural)			No information available			
Air				No information available			
8.2.	Exposu	re controls					
8.2.1.	Approp	oriate engineering co	ontrols				
	Substance/mixture related measures to prevent exposure during identified uses:			Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:			No information available			
	Organisational measures to prevent exposure:			Organization of work in order to reduce other worker's influence during work process.			
	Technic exposu	cal measures to prev re:				e ventilation in ord ir below permitted	



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8.2.2.	Personal protection equi	pment				
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection					
	Hand protection:	Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long es (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 exp		See Section 6			
	Structural measures to prevent exposure:		Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to prevent exposure:		See 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:	red	No information available			
	Odour/odour threshold:	No information available	No information available			
	Melting point / freezing point:	No information available	No information available			
	Boiling point or initial boiling point and boiling range:	No information available	No information available			
	Flammability:	No information available	No information available			
	Lower and upper explosion limit:	No information available	No information available			
	Flash point:	No information available	No information available			
	Auto-ignition temperature:	No information available	No information available			



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

SECTIO	SECTION 10. Stability and reactivity				
10.1.	Reactivity: See 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. Toxico	ological information				
11.1. Information	n on toxicological effec	ts			
Acute toxic	ity:				
Route of exposure:	Method	Species	Effective dose LD_{50}/LC_{50} or $ATE_{mixture}$	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	-
					,
Specific tar	get organ toxicity – sir	igle exposure (S	TOT SE):		
	Specific e	ffects	Target orga	n	Note



Subchronic oral

available

No information

available

available

information

No

available

available

information

No

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

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Trading name:	BIEE	BRICH SCARLET-ACID F	UCHSIN REAGENT	<u> </u>	
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Product code:	BSAF-OT-X**	Da	ite of compila	tion: 21 De	ec 2022	Version: 4
Oral exposure:	No informa	tion available	No infor	mation availa	ble	-
Dermal exposure	: No informa	tion available	No info	mation availa	ble	-
Inhalation exposu	ure: No informa	tion available	No infor	mation availa	ble	_
Respirat	ory irritation:	N	o information a	available		
Irritation	and corrosion					
	Exposure time	e Speci	es Ev	aluation	Method	Note
Skin irritation:	-	-	-		-	-
Eye irritation:	-	-	-		-	-
Sensitiza	ntion					
Dermal exposure	: No information	available				
Inhalation exposure:	No information	available				
Sympton	ns related to the ph	weight chamics	al and toyicolog	gical character	ictics	
Oral exposure:	No information		ai ailu toxicolog	gical character	1311C3	
Dermal exposure						
Inhalation exposure:	No information					
Eye exposure:	No information	available				
Repeate	d dose toxicity (sub-	acute, subchro	onic, chronic)			
·	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No informatio n available	No informa	ation -
Subacute dermal	No information available	No information available	No information available	No informatio n available	No informa available	ation _
Subacute inhalation	No information available	No information	No information	No informatio	No informa	ation -

available

No information

n available

informatio

n available

No



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Trading name:		BIEBRICH SCARLET-ACID F	UCHSIN REAGEN	T .
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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			mation	-
Chronic oral	No i availa	nformation ble	No information available	nformation info		No informatio n available	No infor		-
Chronic dermal	No information available		No information available		rmation lable	No informatio avail		mation	-
Chronic inhalation	No information available		No information available		rmation lable	No informatio n available	No infor		-
Specific	target		y – repeated e	xposu	re (STOT I				
	Specific e					Target organ			Note
Subacute oral						mation availab		-	
Subacute derma			ation available			mation availab		-	
Subacute inhalat	ion		ation available			mation availab		-	
Subchronic oral			ation available			mation availab		-	
Subchronic derm			ation available			mation availab		-	
Subchronic inhal Chronic oral	ation	7	ation available			No information available No information available		_	
Chronic dermal			ation available		No information available		_		
Chronic inhalatio			ation available		No information available		_		
C. II OTHE HITIAIALIC		. 10 1111011110	on available		740 1111011	ation availab			
CMR ef	fects (ca	arcinogenicit	y, mutagenicity	y, repr	oductive t	toxicity)			
Carcino					on availab				
Mutage	nicity <i>ir</i>	n-vitro:	No info	rmatio	on availab	le			
Genoto	xicity:		No info	rmatio	on availab	le			
Mutage	Mutagenicity in-vivo:		No info	rmatio	on availab	le			
Germ ce	Germ cell mutagenicity: Reproductive toxicity:		No info	No information available No information available					
GCIIII C			NI- :-f-						



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Trading name:		BIEBRICH SCARLET-ACID I	UCHSIN REAGEN	Т
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

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:	BIEB	RICH SCARLET-ACID I	FUCHSIN REAGENT	Γ
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

Abio	tic de	egradation										
		Degradatio	n half-liv	/es		Method			Evaluatio	n	Note	
Marine water	No	informati	on availa	ble	No info	rmation availab	ole	No inform	ation ava	ilable	-	
Fresh water	No	informati	on availa	ble	No info	rmation availab	ole	e No information available			-	
۹ir	No	informati	on availa	ble	No info	rmation availab	ole	e No information available -				
Soil	No	informati	on availa	ble	No info	rmation availab	ole	No inform	ation ava	ilable	-	
Riod	earad	dation										
% Degradation			(days)		М	ethod		Evaluatio	n	N	ote	
No information	n		informat	ion	No inform available			o information	on I	No informa available		
		ulative po		ol/w	ater (log Ko	ow):						
Value	No.	ncentratio	•	Н	°C	Method No information	,	Evalua No inform			Note	
_		o information railable			available			available	iation	-		
D: -			-t(DCF									
Value	oncer	ntration fa	ecies)	l M	 lethod	0 0 0 0 0 0 0 0 0 0 0 0	Evaluati	ion		Note	
No information	on	No available	informat	ion	No inform			o information		No infor	mation	
available		available			available		av	allable		available		
Chro	nic e	cotoxicity										
Val	Value Dose			Exposure time	Species		Method	Evalı	uation	Note		
Chronic toxici	toxicity on fish LC ₅₀		LC ₅₀	1	o formation railable	No information available	1	o formation railable		No information available		



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Trading name:	E	SIEBRICH SCARLET-ACID FUCHSIN REAG	GENT
Product code:	BSAF-OT-X**	Date of compilation: 21 Dec 2022	Version: 4

Produc	Product code: BSAF-OT-X*			Date	of co	mpilatio	on:	21 Dec	2022	Version: 4		
Chronic crustace			EC ₅₀	No information available	No infor availa	mation able	No infor	mation able	No inform available	nation	-	
12.4.	Mobil	ity in soi	l									
	Knowi	n or pred	dicted distributi	on in environm	nental (comparti	ments	•				
	No inf	formatio	n available									
	Surfac	e tensio	n:						_			
	Va	ılue	°C	Concentr	ation		М	ethod		I	Vote	e
	No information available No informat		on information available	on	No information available			able	-			
Transpo		A/D d	lesorption coefficient 's constant	log Kow		Evapora	ation r	ate	Method		No	ote
Soil-wa	Henry's constant No information available					No information available			No informatior available	ı -		
Water-a	air	No ivailable	information	No information available		No information available			No informatior available	1 -		
Soil-air		No available	information	No information		o inform ⁄ailable	ation		No informatior available	1 -		
12.5.	Result	s of PBT	and vPvB asses	ssment								
	accord	ding to R	/mixture does r REACH Article 5 J) 2018/605 at l	7(f) or Commis	sion D	elegated						
12.6.	Endoc	rine disr	upting properti	es								
. 2.0.	The su	ubstance ding to R	/mixture does r REACH Article 5 J) 2018/605 at I	not contain cor 7(f) or Commis	sion D	elegated				•		•

12.7. Other adverse effects



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

	No information available			
	N 13. Disposal considerat			
13.1.	Waste treatment method	ds		
	<u> </u>			
13.1.1.	Product/Packaging disposal:			
	Submit for disposal to the Protection.	ne legal person authorized by the Ministry of Environmental and Nature		
13.1.2.	Waste codes/waste design	gnations according to Law:		
	No information available	-		
13.1.3.	Waste treatment – releva	ant information:		
	No information available	•		
12.1.4	C			
13.1.4.	Sewage disposal – releva			
	Waste must not be dispo	osed of into the sewage system.		
13.1.5.	Other disposal recommendations:			
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors my 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			
UN num	nber:	Not subject to transport regulations.		
UN proper shipping name:		-		
Transport hazard class(es):		-		
Packing group:		-		
	mentally hazardous:	-		
Special _I	precautions for user:	-		
	Transporting/shipment by			
UN num	nber:	Not subject to transport regulations.		



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

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

UN proper snipping name: Transport hazard class(es): Packing group: Inland waterway transport (ADN) UN number: Not subject to transport regulations. UN proper shipping name: Transport hazard class(es): Packing group: Inland waterway transport (ADN) UN number: Not subject to transport regulations. UN proper shipping name: Transport hazard class(es): Packing group: Interpretations for user: Transporting/shipment by sea (IMDG) UN number: Not subject to transport regulations. UN proper shipping name: Interpretations for user: Transport hazard class(es): Packing group: Interpretations for user: Transport hazard class(es): Packing group: Interpretations for user: Transport hazard class(es): Packing group: Interpretations for user: Transporting/shipment by air (ICAO-TI/IATA-DGR) UN number: UN proper shipping name: Interpretations for user: Transport hazard class(es): Interpretations for user: Interpretations for us		
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Environ → Rectain By hazardous: - Special → Rectain By Precautions for user: - UN number: Not subject to transport regulations. UN proper shipping name: - Transport hazard class(es): - Packing or oup: - Environ → Rectain By hazardous: - Special → Rectain By recautions for user: - In a sporting/shipment by sea (JUN propershipping name: - UN propershipping name: - Transport hazard class(es): - Packing group: - Environ → Recautions for user: - Special → Recautions for user: - Special → Recautions for user: - Special → Rectain By hazardous: - UN number: Not subject to transport regulations. UN propershipping name: - Transporting/shipment by air (LTA) – TI/IATA – DGR) UN propershipping name: - Transport hazard class(es): - Rectain By hazardous: -	Transport hazard class(es):	
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UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:	Transporting/shipment by air (ICA	AO-TI/IATA-DGR)
Transport hazard class(es): Packing group: Environmentally hazardous: -	UN number:	Not subject to transport regulations.
Packing group: - Environmentally hazardous: -	UN proper shipping name:	-
Environmentally hazardous: -	Transport hazard class(es):	-
	Packing group:	-
Special precautions for user: -	Environmentally hazardous:	-
	Special precautions for user:	-
Further information: -	Further information: -	

SECTIO	ION 15. Regulatory information				
15.1.	Safety, health and environ	mental regulations/legislation specific for the substance or mixture			
	EU regulations	EU regulations			
	Authorization and/or restr	ictions of use			
	Authorizations:	-			
	Restrictions:	-			



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

		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);
	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	Substances Act

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:	-



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amended by Regulation (EU) No. 1907/2006

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

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:	-			
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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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			В	
	Chemical name:	-				
	Product code:	FRV-OT-	V-OT-X**			
1.2.	Relevant identified use	es of the	substance	e or mixtu	re and uses advised against	
	Uses:			For use w	ith special staining kits.	
	Uses advised against:			Only the i	dentified uses are advised.	
	Reason why uses advis	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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugo	Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2	+385 1 2409997		
	Telefax:		+385 1 2	85 1 2404039		
	e-mail of competent person: msds		msds@b	<u>s@biognost.hr</u>		
	National contact:	National contact:				
1.4.	Emergency telephone	number	S			
	National Protection an	National Protection and Rescue Director		rate:	112	
	Medical information:				+385 1 2348 342	
	Other information:			-		

SECTIO	TION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category code: Hazard statement*:				
	Skin Irr. 2		H315		
	Eye Irr. 2		H319		
2.1.2.	Additional information				
	-				
*For the	e full text of H and EUH phras	ses see Section 16			
2.2.	Label elements				
	Product identification: FERRI REAGENT, VERHOEFF B				
	Identification number: -				
	Authorisation number: -				



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Trade name:		FERRI REAGE	NT, 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 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.			



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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	CTION 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 equipment and emergency procedures				
6.1.1.	For non-emergency personnel	For non-emergency personnel			
	Protective equipment:	Protective equipment: Use suitable personal protective equipment (see Section 8).			



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	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment.		
	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 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	TION 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. The	noroughly w	ash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incor	npatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.				
	Packaging materials:	Manufact	urer's original packaging.			
	Requirements for storage rooms and vessels:	Keen away from food and drink. Keen the containers				



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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:	-			

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION											
8.1. Co	ontrol pa	ntrol parameters									
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values					
				ppm	mg/m³						
-		_		-	-		-				
Substance:	-										
EC No:	-		CAS No:	_							
DNEL											
Industrial											
Route of exposure:					ute effect systemic	Chronic effect local		Chronic effect systemic			
Oral -		-		-		-		-			
Inhalation -		-		-		-		-			
Dermal -			-		-		-				
Critical physical parameters: solubility, flammability, corrosivity:											
					Consumer						
Route of exposure:					ute effect	Chronic ef	fect	Chronic effect			
			local	S	ystemic	local		systemic			
Oral -			-		-		-				
Inhalation -			-		-		-				
Dermal -			-		-		-				
PNEC											
Environmental protection target PNEC											



Fresh water

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

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No information available

riesii watei			Tto mioritation available		
Freshwater sediments			No information available		
Marine wa	ater		No information available		
Marine se	diments		No information available		
Food chai	'n		No information available		
Microorganisms 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	5			
	to prevent exposure during identified		Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		No information available		
	Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equipment:				
8.2.2.1.	Eye and face protection:		Safety glasses tested and approved under appropriate standards such as EN 166(EU).		
8.2.2.2.	Skin protection:				
	Hand protection:	ŗ C	Handle 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 t.		
	Other skin protection:	١	No specific protective equipment required.		
8.2.2.3.	Respiratory protection:		Use when overexposure potential. Improper use of respirators is dangerous.		
8.2.2.4.	Thermal hazards:	١	No information available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		
	Structural measures to prevent exposure:	Use mo	odern equipment.		
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.		



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

SECTIO	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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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).

	_	ical information							
11.1.	Information or	toxicological eff	ects						
	Acute toxicity:					-			
Route of exposure:		Method	Sp	ecies Effect Dos LD ₅₀ /LC ATE _{mi}		ose Exposure LC_{50} or time			Results
Oral:	No	information available		-	N inform avail	_	-		-
Dermal	. No	information available		-		lo nation lable	-		-
Inhalati	on: No	information available		-	No information available		_		-
	Specific target	organ toxicity - s	single e	xposure (STC	OT-SE):				
		Spec	ific effe	ects		Targe	et organ		Note
Oral:	No i	nformation availa	ble			-		-	
Dermal	: No i	nformation availa	ble			-		-	
Inhalati	on: No i	nformation availa	ble			-		-	
	Aspiration haz	ard:		-					
	Irritation and o	corrosion							
		Exposure t	ime	Species		Evaluation	on l	Method	Note
Skin co	rrosion/irritation:	No inform		rabbit	-		–		mild skin irritation
No information				rabbit	2	4 h	-		eye irritation



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Sensit	tization						
Skin sensitizatio	n: N	o inform	nation available.				
Respiratory sensitization:	N	o inform	nation available.				
:							
Symp	toms relat	ed to ph	ysical, chemical	, and toxicologic	cal properties		
Oral exposure:		No kno	own specific syn	nptoms.			
Dermal exposur	e:	No kno	own specific syn	nptoms. May ca	use skin irritatior	١.	
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 t	toxicity (subacute, subch	nronic, chronic)			
	Do	se	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No infor 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 infor available		No information available	No information available	No information available	No information available	No information available
Chronic oral	No infor available		No information available	No information available	No information available	No information available	No information available
Chronic dermal	No infor		No information available	No information available	No information available	No information available	No information available



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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 (S	STOT-	RE):			
		Specific ef	fects		Target org	jan	Note	
Subacute ora	ıl n	lo information a	available	No	information av	ailable	No information available	
Subacute der	mal N	lo information a	available	No	information av	ailable	No information available	
Subacute inh	alation N	lo information a	available	No	information av	ailable	No information available	
Subchronic o	ral N	lo information a	available	No	information av	ailable	No information available	
Subchronic d	ermal N	lo information a	available	No	information av	ailable	No information available	
Subchronic ir	nhalation N	No information available			No information available		No information available	
Chronic oral	1	lo information a	No information available		ailable	No information available		
Chronic derm	nal N	lo information a	available	No information available		ailable	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:	,, ,				e classificatio	on criteria are not	
Ми	itagenicity <i>in-vitro</i> :		Based met.	Based on available data, the classification crit			on criteria are not	
Ge	notoxicity:		met.				ion criteria are not	
Mu	itagenicity <i>in-vivo</i> :		met.					
Ge	rm cell mutagenicity		met.				on criteria are not	
Rep	oroductive toxicity:		met.	on av	allable data, th	e classificatio	on criteria are not	
	mmary of evaluati	on of the C	MR No info	ormat	ion available			



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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 information:
	-

Acute (s toxicity	short-	term)	Dose	Exposu time		Species	M	1ethod	Evaluation	Note
Fish			LC ₅₀	96 hours	5	-	-		-	-
Crustac	ea:		EC ₅₀	48 hours	5	_	-		-	-
Algae/a	quatio	plants:	IC ₅₀	72 hours	5	-	-		-	-
Other o	rganis	sms	_	-		-	-		-	-
Chronic toxicity	(long	-term)	Doza	Exposi time		Species	M	1ethod	Evaluation	Note
Fish			LC ₅₀	96 hours	5	-	-		-	-
Crustac	ea:		EC ₅₀	48 hours	5	-	-		-	-
Algae/a	quatio	plants:	IC ₅₀	72 hours	-	-	-		-	-
Other organisms		-	-		_	-		_	-	
							·			
12.2.	Pers	sistence a	nd degrad	ability						
	Abi	otic degra	adation							
		Degra	adation ha	lf-lives		Method			Evaluation	Note
Marine water		No infor	mation av	ailable	No	information availa	ıble	No info	ormation le	-
Fresh w	ater	No infor	mation av	ailable	No	No information available		No information available		-
Air		No infor	mation av	ailable	No	information availa	ble	No info	ormation le	-
Soil		No infor	mation av	ailable	No	information availa	ble	No info	ormation le	-

Method

Evaluation

Note

Time (days)

% Degradation



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Trade name:						I	FERRI R	EAGE	NT,	VERHOEFF	В			
Product code	e:	FRV-	OT-X**		Da	te of	compila	tion:	14	November	2022		Version:	3
		No in availa	formation ble	on	n No i avail		nformation able	on	No information available			-		
12.3. Bio	accum	ulativ	e poten	tial										
Oc	tanol-w	vater	partition	n coeff	icient	(log l	Kow)							
Value		centr		рН		°C		ethod		Evalua			Note	
No information available	information available		-			No info		on	No informavailable	ation	-			
Bio	concer	ntratio	on Facto	or (BCF	······································									
Value			Speci	es	Method			Evaluation		Note				
No informati available		No in availa	formation	on	n No info					No information available		-		
Ch	ronic e	cotov	vicity											
Valu			Dose	E	xposi time		Spe	cies		Method	Ev	aluation	Not	te
Chronic toxic	city on	fish	LC ₅₀		ormat iilable		No informa availab	information i		o formation railable	No information available		-	
Chronic toxic crustacea (Da	-)	EC ₅₀	No info			No information available		No in		No information - available			
12.4. Mo	bility ir	n soil												
			icted dis	stributi	ion in	envir	onmenta	ıl com	partm	nents:				
Sur	face te	nsion	n:		1									
\	√alue		°C		Co	oncent	tration		M	1ethod			Note	
	ormatic vailable		o formatio vailable	on		inforn ilable	nation	No in		nation	_			



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Trade n	ame:		FERRI REAGENT, VERHOEFF B								
Product	code:	FRV-OT-X**	Date of comp	oilation: 14 N	November 2022	Version:	3				
	Adso	rption / desorption	1								
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-a		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									
		formation available									
SECTIO	N 13. C	Disposal consideration	ons								
13.1.	Waste	e treatment methods									
	= !										
13.1.1.	Pro	duct/Packaging dispo	osal:								
		mit for disposal to th	ne legal person auth	norized by the M	linistry of Environmer	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.							
42.45											
13.1.3.	Was	ste treatment – releva	ant information:								



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	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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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 number: UN proper shipping name:	Not subject to transport regulations -
UN proper shipping name:	-
UN proper shipping name: Transport hazard class(es):	-
UN proper shipping name: Transport hazard class(es): Packing group:	-
UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards:	- - -

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					
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	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.		ification and procedu /2008 (CLP)	re used to derive the classification for mixture according to Regulation (EC)		
Classific	ation		Classification procedure		
-			-		
16.5.	Relev	ant H statements (nu	mber and full text)		
	H: 315 Causes skin irritation. 319 Causes very serious eye irritation.		Causes severe skin burns and eye damage. Causes skin irritation.		
16.6.	Train	ing advice:	-		



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

1.1.	Product identifier				f the company/undertaking		
	Trade name:	HEMATOX	YLIN, VERH	HOEFF A			
	Chemical name:	-	-				
	Catalogue number:	HEMV-OT-	HEMV-OT-X**				
1.2. Relevant identified uses of the substance or mixture and uses advised against				nd uses advised against			
	Uses:			For use w	ith special staining kits.		
	Uses advised against:			Only the	identified uses are advised.		
	Reason why uses ad	vised 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 supplie	er of the safet	ty data she	et			
	Supplier:		BioGn	BioGnost Ltd.			
	Address:		Medju	Medjugorska 59, Zagreb			
	Telephone number:		+385	+385 1 2409997			
	Telefax:		+385	+385 1 2404039			
	E-mail of competent	person:	msds(msds@biognost.hr			
	National contact:		-				
1.4.	Emergency telephon	e numbers					
	National Protection	and Rescue D	irectorate:		112		
	Medical information				+385 1 2348 342		
	Other information:						

SECTIO	TION 2. Hazards identification				
2.1.	Classification of the substa	nce or mixture			
2.1.1.	Classification according to	Regulation (EC) No	o. 1272/2008 (CLP)		
	Hazard class and cat	egory code:	Hazard statement*:		
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For fu	Ill text of Hazard- and EU Haz	ard-statements: see	e Section 16.		
2.2.	Label elements				
	Product identification:	HEMATOXYLI	IN, VERHOEFF A		
	Identification number:	-			
	Authorisation number:	-			



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

SECTION 3. Co	SECTION 3. Composition/information on ingredients								
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)					
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	80 - 100 %	ethanol	Flam. Liq. 2; H225					

SECT	SECTION 4. First aid measures				
4.1.	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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	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 med	Indication of any immediate medical attention and special treatment needed			
	No information available				

SECT	CTION 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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	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	TION 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	compatibilities			



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

SECTION 8. Exposure controls/personal protection							
8.1. Control para	8.1. Control parameters						
Substance	CAS N	CAS No			exposure limit term values	Biological limit values	
			рр	m	mg/m³		
Ethanol	64-17	-5	100	0/-	1900/-	No information available	
Substance:	-						
EC No:	-		CAS	No:	-		
DNEL							
			Industri	ial			
Route of exposure:	Acute A		cute Chronic		Chronic	Chronic	
Route of exposure:	effect local	effect systemic		effect local		effect systemic	
Oral	-	-		-		-	
Inhalation	1900 mg/m³ (ethanol)	-	-			380 mg/m³ (ethanol)	
Dermal	-	-	-			343 mg/kg (ethanol)	
Critical physical param	neters: solubility,	flammability,	corrosi	vity:	-		
	Consumer						
Pouto of ovnocure	Acute	Acute	e		Chronic	Chronic	
Route of exposure:	effect local	effect sys	temic	е	ffect local	effect systemic	
Oral	-	-		-		87 mg/kg bw/day (ethanol)	



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Trade na				<u>.</u>	OXYLIN, VERH				
Product	code:	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	PNEC								
Environm	nental prote	ction target		PNEC					
Fresh wa	ter			0.96 mg/l (ethanol)				
Freshwat	er sediment	ts		3.6 mg/kg	(ethanol)				
Marine w	ater			0.79 mg/l (ethanol)				
Marine so	ediments			2.9 mg/kg	(ethanol)				
Food cha	in			380-720 m	g/kg (ethanol)				
Microorg	anisms in s	ewage treatment		580 mg/l (6	ethanol)				
Soil (agri	cultural)			0.63 mg/kg	g (ethanol)				
Air				no information available					
8.2.	Exposure	controls							
8.2.1.	Appropria	te engineering cont	rols						
	measures	e/mixture related to prevent exposure entified uses:		Do not eat, drink or smoke in the workspace. Use personal protective equipment.					
	Structural exposure:	measures to preven	nt	No information available					
	Organisat prevent ex	ional measures to kposure:		Organization of work in order to reduce other worker's influence during work process.				nce	
	Technical exposure:	measures to preven	t	See Section	7.2				
8.2.2.	Personal p	protection equipmer	nt						
8.2.2.1.	Eye and fa	ace protection:	of co	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 prote	ection							
	Hand prot	tection:		otective gloves must be according to the EU Directive 2016/425/EEC d standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				/EEC	



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	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.			
8.2.2.3.	Respiratory protection:	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 avai	ailable		
8.2.3.	Environmental exposure con	trols			
	Substance/mixture related m exposure:	neasures to prevent	See Section 6		
	Structural measures to preve	nt exposure:	Use modern equipment.		
	Organisational measures to p	orevent exposure:	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to preve	nt exposure:	See Section 6		

.1.	Information on basic physical an	Information on basic physical and 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				
	Lower 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				



Aspiration hazard:

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

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	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:	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	mation on hazard c	lasses as defined	in Regulation (EC	C) No 1272/2008			
Acut	e toxicity:						
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results		
Oral:	-	rat	LD ₅₀	- 7.06		7.060 mg/kg (ethanol)	
Dermal:	-	rabbit	LD ₅₀	LD ₅₀ -		>20.000 mg/kg (ethanc	
Inhalation:	-	rat	LC ₅₀	4 h (ethanol)	>8.000 mg/l (ethanol)		
Specific tar	get organ toxicity -	single exposure (STOT-SE):				
		Specific effects		Target organ		Note	
Oral:	No informati	on available	N	No information available		-	
Dermal:	No information available		N	No information available		-	
	No information available			No information available			

No information available



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Irritation ar	d corro						
		Exposure time	Speci	es	Evaluation	Method	Note
Skin corrosion/irritat	ion	No information available	No informat available		information ilable	No information available	-
Serious eye damage/irritatio	on	No information available	No informat available		information ilable	No information available	-
Sensitization	-						
Skin sensitizatio	n:	No information	available				
Respiratory sensitization:		No information	available				
Symptoms re	lated to	the physical, ch	nemical and to	xicological cha	aracteristics		
Oral exposure:		Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.					
Dermal exposur	Δ.	Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure may cause drying, cracking and tingling sensation of skin.					
Inhalation exposure:		Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.					
Eye exposure:		irect eye contac ensation.	t may cause sl	ight to modera	ate irritation, la	crimation and bur	ning
Panastad da	so tovic	ity (subacute, su	phohronic chro	anic)			
Nepeated do			osure time	Species	Method	Evaluation	Note
	No	nation No	information	No information available	No information available	No information available	-
Subacute oral					No	No	
Subacute oral Subacute dermal	No inforr availa	nation No ble availa	information ble	No information available	information available	information available	-



Reproductive toxicity:

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

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r roduct code	TILIVIV-O	1-X Da	te or compr	iation. 14	TNOV ZUZZ	V CI SIOII.
Subchronic	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	ronic information No information ii		No information available	No information available	No information available	-
Subchronic inhalation	behronic information No information in		No informatior available	No information available	No information available	-
Chronic oral	No information No information info		No informatior available	No information available	No information available	-
Chronic dermal	No information available	No information available	No informatior available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No informatior available	No information available	No information available	-
Specific targ	get organ toxicity	y - repeated exposure				
		Specific effe		Target o	_	Note
Subacute oral		No information available				_
Subacute derm		No information available		No information a		_
Subacute inhal		No information avail		No information available		_
Subchronic ora		No information available		No information a		_
Subchronic de Subchronic inh		No information avail		No information available No information available		-
Chronic oral	iaidtiUII	No information avail		No information a		_
Chronic derma		No information avail		No information a		_
Chronic inhala		No information avail		No information available		_
Chronic inhala	tion	No information avail	able	No information a	available	-
		, mutagenicity, reprod		•		
Carcinogeni			No information available			
Mutagenicit	-		No information available			
Genotoxicity				rmation available		
Mutagenicit	-			rmation available		
Germ cell m	utagenicity:		ino into	rmation available		

No information available



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Sumr	mary of evaluation of the CMR properties:	No information available
11.2.	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	No known endocrine disrupting properties taffect human health.	hat
11.2.2.	Other information:	
	-	

12.1. Toxici	ty					
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



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	Degrada	tion half-li	ves		Method		Evaluatio	n	Note
Marine water	No informat	ion availat	ole	No info	ormation le		information lable	on -	
Fresh water	vater No information available		No info	ormation le		information lable	on -		
Air	No informat	ion availab	ole	No info	ormation le		information lable	on -	
Soil	No informat	ion availat	ole	No info	ormation lle		information lable	on -	
Biodegrac	dation								
% Degradat		me (days)		N	1ethod		Evaluatio	n	Note
-	-		-			_		-	
						1		i .	
12.3.	Bioaccumulat	ive potenti	al						
	Octanol-wate	r partition	coefficie	ent (log l	(ow)				
Value	Concentr	ation	рН	°C	Method		Eval	uation	Note
-	-		_	-	-		-	-	
·								·	
Biocor	ncentration Fa	ctor (BCF)							
Value		Species			Method		Eva	luation	Note
No information available	No infor	mation ava	ilable	No info	ormation availab	lle	No infor available		-
Chronic e	cotoxicity							<u> </u>	
	Dos	se I	Exposure	e time	Species	М	ethod	Evaluation	Note
Value	rity		o inform ailable	ation	No information available	_	rmation lable	No information available	-
Chronic toxio	LC ₅₀	av	No information available		1				



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12.4.	Мо	bility in soil								
	Kno	own or predicted	d distributi	on in enviro	nmen	tal compartm	ents:			
	No	information ava	ilable							
	Sur	face tension:								
		Value		°C	Со	ncentration	Ме	thod		Note
	No ava	information ilable	No i available	nformation		nformation lable	No inforr availa	nation ble	-	
Adso	rptio	n / desorption								
Transpo	ort	A/D coeffic Henry's cor		log Kov	٧	Evaporation	n rate	N	lethod	Note
Soil-Wa	iter	No info	ormation	No informa available	ation	No informat available	ion	No inf availal	ormation ole	-
Water-A	۹ir	No info	ormation	No informa available	ation	No informat available			ormation ole	-
Soil-Air		No info	formation No infor available				No information No i available avail		formation - able	
12.5.		sults of PBT and								
	Bas	ed on available	data, the p	product does	s not o	contain any PE	BT or vF	VB subs	tances.	
12.6.	Γna	la crina dicrumtin	a proporti	inc.						
12.0.		docrine disruptir ed on available			anda	ocrine discust	orc			
	Das	ca on available	data, does	THOU COINCIN	CHUC	zemie distupte	<i>7</i> 13.			
12.7.	Oth	ner adverse effe	cts							
		adverse effects		ed.						
	1		Į -							
SECTIO	N 13	. Disposal cons	iderations	5						
13.1.	Wa	ste treatment m	ethods							
13.1.1.	Pr	oduct/Packagin	g disposal:							
		bmit for disposi	al to the le	gal person a	uthor	rized by the M	inistry	of Enviro	onmental and	d Nature



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13.1.2.	Waste codes/waste designations according to Low:					
	Packaging that contains resid	dual hazardous substances or is contaminated with hazardous substances				
13.1.3.	Waste treatment – relevant i	nformation:				
	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. Submit ors authorized by the ministry in charge.				
13.1.6.	Relevant Community provisions:					
	Disposal must be made acco	ording to official regulations.				
SECTIO	N 14. Transport information					
Trar	nsporting/shipment by road (A	DR)				
UN num	ber	1170				
UN prop	er shipping name:	Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing	group:	П				
Environr	nental hazards:	No information available				
Special p	precautions for user:	-				
Trar	nsporting/shipment by rail (RID)				
UN num	ber:	1170				
UN prop	er shipping name:	Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing	group:	II .				
Environr	mental hazards:	No information available				
Special	precautions for user:	-				
Trar	nsporting/shipment by inland v	vaterways (ADN)				
UN num	ber:	1170				
UN prop	er shipping name:	Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing	group:	II				



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Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by sea (IMDC	5)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-
Transporting/shipment by air (ICAO-	TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Further - information:	

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



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15.2.	Chemical safety assessment None				
	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and 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 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)				
	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 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC 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 product 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 XVIII);			

SECTIO	N 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 reference data:	es and source of		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classific	cation	Classification procedure		
_		-		
16.5.	Relevant H statements	(number and full text)		
	H: 225	Highly flammable liquid and vapor.		
16.6.	Training advice:	-		
		** "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	
-	



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Trading name:	IODINE SOLUTION, VERHOEFF C						
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SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking			
1.1	Product identifier						
	Trading name:	IODINE SOI	IODINE SOLUTION, VERHOEFF C				
	Chemical name:	-	-				
	Catalogue number:	JODV-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	The product is intended for use only as an <i>in vitro</i> diagnostic medicated against: device, registered at the Agency for Medicinal Products and Medicinal 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 p	erson:	msds@l	msds@biognost.hr			
	National contact:		-				
1.4	Emergency telephone	number					
	National Protection ar	nd Rescue Dire	ectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	ECTION 2. Hazards identification						
2.1	Classification of the substan	Classification of the substance or mixture					
2.1.1	Classification according to R	egulation (EC) No 1	272/2008 (CLP)				
	Hazard class and cat	egory code:	Hazard statements*:				
	Not identified as hazardous	substance.	-				
2.1.2.	Additional information						
	-						
*For fu	ıll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16				
2.2	Label elements						
	Product identification:	IODINE SOLUTI	ON, VERHOEFF C				
	Identification number:	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 Propert	ies:			
	No known endocrine disrupting properties				
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance PBT or a vPvB.				

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

SECTI	ION 4. First aid measures			
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 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 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				
	-				

SECTI	TION 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	ECTION 6. Accidental release measures						
6.1	Personal precautions, protective equipment and emergency procedures						
6.1.1.	For non-emergency personnel						
	Protective equipment:	Use personal protective equipment (see Section 8).					
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.					
	Emergency procedures: Mark the area using proper signs.						
6.1.2.	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, or Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.					
6.3	Methods and material for cont	ainment 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 incon	npatibilities			
	Technical measures and storage conditions:	well ventil	ep in tightly closed and upright set containers in a Il ventilated storage rooms at temperatures ranging m 15 to 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	ırer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drait 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:	-

N 8. Expos	ure contr	ols/perso	nal pr	rotect	ion				
Control pa	rameters								
Substance		CA							Biological limit values
Substance			.5 110		ŗ	opm	mg/m³		Diological mine values
-			-			-	-	-	
nce name:	-								
EC No: - CAS No: -									
					Ind	lustrial			
of Acute Acute		е		Chronic		Chronic			
re:	effect	local	ocal effect systemi		temic	effect local			effect systemic
	-	-			-			-	
on	-		-			-			-
	-		-			-	;		-
physical par	ameters: s	olubility,	flamm	nability	y, corr	rosivity:	-		
					Cor	nsumer			
of	Ad	cute		Acute	e		Chronic		Chronic
re:	effec	t local	effe	ct sys	temic		effect local		effect systemic
	-		-			-			-
on	-		-			-			-
	-		-					-	
mental prot	ection tar	get				PNEC			
ater						no inform	nation available		
ater sedimer	nts					no information available			
water						no information available			
Marine sediments					no information available				
	Substance Substance of re: on ohysical par ohysical par ater ater sediment water	Substance Substance of Acueffect on - ohysical parameters: so re: effect on - ohysical parameters: so re: effect are: effect are: effect re: effect are: effect a	Control parameters Substance CA ce name: - CAS No of Acute effect local - con - cohysical parameters: solubility, of Acute effect local - con -	Control parameters Substance CAS No	Substance CAS No CAS No	Substance CAS No Occuval CAS No Indice name: - CAS No: - Indice name: - Indice name:	Substance CAS No Occupational values/short ppm	Control parameters Substance CAS No CAS No: CA	Control parameters Substance CAS No CAS No CAS No Docupational exposure limit values/short term values ppm mg/m³ Docuped in a control parameters Industrial Of Acute Acute Effect local Effect local Effect systemic Effect local Docuped in a control parameter in a contr



Food chain

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no information available

i ood ciidi	··-		no 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 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. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment	oment			
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				
	·		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 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 p	point: No information availab	le No information available	
Boiling point or initial bo point and boiling range:	iling No information availab	le No information available	
Flammability:	No information availab	le No information available	
Lower and upper explosi	on limit: No information availab	le No information available	
Flash point:	No information availab	le No information available	
Auto-ignition temperatur	re: No information availab	le No information available	
Decomposition temperat	ure: No information availab	le No information available	
pH:	No information availab	le No information available	
Kinematic viscosity:	No information availab	le No information available	
Solubility:	No information availab	le No information available	
Partition coefficient noctanol/water (log value)	No information availab	le No information available	
Vapour pressure:	No information availab	le No information available	
Density and/or relative de	ensity: No information availab	le No information available	
Relative vapour density:	No information availab	le No information available	
Particle characteristics:	No information availab	le 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 Informati	on on hazard classes	as defined in	n Regulatio	on (EC) No 1272	2/2008		
Acute tox	icity:						
Route of exposure:	Method	Species		.D ₅₀ /LC ₅₀ or ATE _{mix}	Exposure ti	me	Results
Oral:	No information available	-	No info availabl		-		-
Dermal:	No information available	_	No info availabl		-		-
Inhalation:	No information available	-	No info availabl		-		-
Specific to	arget organ toxicity -		sure (STOT				
	Specific		Target organ				Note
Oral:	No information av	ailable a	No information available			-	
Dermal:	No information av	vailable	No information available			-	
Inhalation:	No information av	vailable	No	information a	vailable	-	
Aspiratio	n hazard:	No	o informati	on available.			
		:					
Irritation	and corrosion						
	Exposure t	ime	Species	Evaluatio	n Method		Note
Skin corrosion/irritation	า:	-		-	-	-	
Serious eye damage/irritation	-	-		-	-	-	
Sensitizat							
Skin sensitization:		mation availa					
Respiratory sensiti	zation: No infor	mation availa	able.				



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Oral exposure:	No informa	ation available.				
Dermal exposure	e: No informa	ation available.				
Inhalation expos	ure: No informa	ation available.				
Eye exposure:	No informa	ation available.				
Repeate	ed dose toxicity (su	ubacute, subchro	onic, chronic)	-		
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	–
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	No information available	No information available	No information available	No information available	-



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Subacute oral	No information available	9		No information available	-		
Subacute dermal	te dermal No information available			No information available	-		
Subacute inhalation	No information available	9		No information available	-		
Subchronic oral	No information available	Э		No information available	-		
Subchronic dermal	No information available	2		No information available	-		
Subchronic inhalation	n No information available	Э		No information available	-		
Chronic oral	No information available	9		No information available	-		
Chronic dermal	No information available	9		No information available	-		
Chronic inhalation	No information available	9		No information available	-		
CMR effect	s (carcinogenicity; mutagenici	ty; re	eproductive	toxicity)			
Carcinogen	Carcinogenicity:			able data, the classification o	criteria are not met.		
Mutagenici	ty in vitro:	Ва	sed on availa	able data, the classification o	riteria are not met.		
Genotoxicit	y:	Ва	Based on available data, the classification criteria are not met.				
Mutagenici	ty in vivo:	Based on available data, the classification criteria are not met.					
Germ cell n	nutagenicity:	Based on available data, the classification criteria are not met.					
Reproducti	ve toxicity:	Ва	sed on availa	able data, the classification o	criteria are not met.		
Summary properties:	of evaluation of the C	MR	Based on met.	available data, the classific	ation criteria are not		
11.2 Information	n on other hazards:						
11.2.1. Endocrine of	disrupting properties:						
component disrupting Article 57 regulation	ance/mixture does not conts considered to have endocted properties according to REA (f) or Commission Delegated (EU) 2017/2100 or Commission (EU) 2018/605 at levels of 0.15	rine ACH ated sion					
11.2.2. Other infor	mation:						
-							

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	-
		_	_	_	_	_

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

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



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		ı			i .		•	<u> </u>		!		
	,											
12.3	Bioaccum	ulative p	otential									
	Octanol-v	vater pa	rtition coeff	icient (log Kow)		1				
Valu	ie Co	ncentra	tion p	Н	°C	Met	hod	Evalu	ation		Note	
-	-		-		-	-		-		-		
	D:		C+- /2.C7									
,	-	ntration	factor (BCF))		\		F l #			Nata	
	/alue ormation	No	Species inform	notion.		Method ormation		Evaluati			Note	
availab		availal		iation	availab			No informati available	On	-		
								1				
	Chronic e	cotoxicit	У									
	Value		Dose		osure ime	Spec	ies	Method	Evalu	ation	Note	е
Chronic	c toxicity on	fish	LC ₅₀	No infor avail	mation able	No informa availab		No information available	No informa availab		-	
Chronic	tovicity on			No		No		No	No			
	toxicity on ea (<i>Daphni</i> o		EC ₅₀	infor avail	mation able	informa availab		information available	informa availab		-	
				avaii		availab	iic .	available	availab			
12.4	Mobility i	n soil										
	1		ed distribut	ion in e	environm	nental co	mparti	ments:				
	No inform											
	Surface te	nsion:										
	Value		°C	С	oncentra	ation		Method			Note	
	No information available		ormation ailable		informa ailable		No info	ormation ble	-			
		<u> </u>										



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	Adsorption / desorption					
Transpo	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note	
Soil-wat	er No information available	No information available	No information available	No information available	-	
Water-a	ir No information available	No information available	No information available	No information available	-	
Soil-air	No information available	No information available	No information available	No information available	-	
12.5	Results of PBT and vPvB asse	essment				
	The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulat			
12.6.	Endocrine disrupting proper	ties				
	The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulat			
12.7	Other adverse effects					
	No further relevant informat	ion available.				
SECTION	N 13. Disposal consideration	ns				
13.1	Waste treatment methods					
	Product/Packaging disposal:					
13.1.1.	3 3 1					
13.1.1.	Product/Packaging dispos Submit for disposal to the Protection.		rized by the Ministr	y of Environmental	and Nature	
13.1.1.	Submit for disposal to the	legal person autho	,	y of Environmental	and Nature	
	Submit for disposal to the Protection.	legal person autho	D Law:			
13.1.2.	Submit for disposal to the Protection. Waste codes/waste design 15 01 10*: Packaging that substances	legal person autho ations according to contains residual ha	D Law:			
	Submit for disposal to the Protection. Waste codes/waste design 15 01 10*: Packaging that substances Waste treatment – relevan	legal person autho ations according to contains residual ha	D Law:			
13.1.2.	Submit for disposal to the Protection. Waste codes/waste design 15 01 10*: Packaging that substances	legal person autho ations according to contains residual ha	D Law:			



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	Waste must not be disposed	of into the sewage system.
13.1.5.	Other disposal recommendat	ions:
	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. Submit rs authorized by the ministry in charge.
13.1.6.	Relevant Community provision	ons:
	Disposal must be made accor	ding to official regulations.
SECTION	1 14. Transport information	
-	Transporting/shipment by road	I (ADR)
UN numb	oer:	Not subject to transport regulations
UN prope	er shipping name:	-
Transpor	t hazard class(es):	-
Packing o	group:	-
Environm	entally hazardous:	-
Special 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	per:	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 sea ((IMDG)
UN numb	oer:	Not subject to transport regulations
UN prope	er shipping name:	-
Transpor	t hazard class(es):	-
Packing o	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: -	

.1 Safety, health and envi	Safety, health and environmental regulations/legislation specific for the substance or mixture				
EU regulations					
Authorization and/or re	estrictions 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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Trading name:		IODINE SOLUTION, V	ERHOEFF C		
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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)	ised to derive the classification for mixture according to Regulation (EC)		
Classif	ication	Classification procedure		
-		-		
16.5.	Relevant H statements (numb	er and full text)		
	H: -	-		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings 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:	ORANGE G, 1% SOLUTION				
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SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking
1.1	Product identifier			
	Trading name:	ORANGE G	. 1% SOLU	TION
	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	Details of the supplier of the safety data sheet		
	Supplier:		BioGnost Ltd.	
	Address:		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997	
	Telefax.:		+385 1 2	2404039
	e-mail of competent p	person:	msds@biognost.hr	
	National contact:		-	
1.4	Emergency telephone	number		
	National Protection ar	nd Rescue Dire	ectorate:	112
	Medical information:			+385 1 2348 342
	Other information:			_

SECTIO	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 cat	tegory code:	Hazard statements*:		
	Not identified as hazardous	substance.	-		
2.1.2.	Additional information				
	-				
*For fu	III text of Hazard- and EU Haza	ard-statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	ORANGE G, 1%	SOLUTION		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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Trading name:	me: ORANGE G, 1% SOLUTION				
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	Signal word:	-	
	Hazard statements:	-	
	Precautionary statements:	-	
	Supplemetal hazard information (EU):	-	
2.3	Other hazards		
	Endocrine Disrupting Prope	rties:	
	No known endocrine disrupting properties Results of PBT and vPvB assessment : According to the results of its assessment, this substance is no PBT or a vPvB.		

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

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



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

SECTI	SECTION 5. Firefighting measures			
5.1	Extinguishing media	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 su	bstance or mixture		
	Hazardous combustion products:	no information available		
5.3	Advice for firefighters	Advice for firefighters		
	Use a self-contained open-circuit c	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.		
5.4	Additional information			
	<u>-</u>	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.	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 a (see Section 8).	case of inadequate ventilation use adequate airways protective equipment		
6.2	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.		



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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 incon	npatibilities			
	Technical measures and storage conditions:	well ventil	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	turer'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:	-

1	<u>'</u>								
SECTION 8. Expos	ure contr	ols/perso	nal pr	otect	tion				
8.1 Control pa									
Substance		CA	CAS No			Occupational exposure limit values/short term values		Biological limit values	
					p	pm	mg/m³		
-			-			-	-	-	
Substance name:	Substance name: -								
EC No:	-	CAS No	:	-					
DNEL									
Industrial									
Route of	Acı	cute Acute		е	Chronic			Chronic	
exposure:	effect	local	effe	ct sys	temic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
Critical physical pa	rameters:	solubility,	flamm	abilit	y, corro	osivity:	-		
					Cons	sumer			
Route of		cute		Acut	:e		Chronic		Chronic
exposure:	effec	t local	effe	ct sys	stemic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal			-						-
PNEC	PNEC								
Environmental protection target					PNEC				
Fresh water					r	no information available			
Freshwater sediments					r	no information available			
Marine water					r	no information available			
Marine sediments				r	no information available				



Food chain

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no information available

1000 01101	···		The 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	5		
	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	nt		
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection			
	Hand protection:		otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min	
	Other skin protection:	footwe entire imperr	p everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.	
8.2.2.3.	Respiratory protection:	with a	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 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

1	Information on basic physical and o	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	orange	No information available
	Odour/odour threshold:	no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient 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 (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

11.1 Informatio	on on hazard classes	as defined in	n Regulatio	on (EC) No 1272/2	800			
Acute toxi	city:							
Route of exposure:	Method	Species	Species Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}		Exposure time		Results	
Oral:	No information available	-	No info	rmation available	-		-	
Dermal:	No information available	-	No info	rmation available	-		-	
Inhalation:	lation: No information available -		No info	rmation available	-		-	
Specific ta	rget organ toxicity -	- single expos	sure (STO)	SE):	-			
	Specific	effects		Target organ		Note		
Oral:	No information av	/ailable	No information available			-		
Dermal:	No information av	/ailable	No information available			-		
Inhalation:	No information av	/ailable	No information available -					
Aspiration	hazard:	No	informati	on available.				
Irritation a	and corrosion							
<u> </u>	Exposure t	ime	Species	Evaluation	Method		Note	
Skin corrosion/irritation	-	-		-	-	_		
Serious eye damage/irritation	-	-		-	-	-		
Sensitizati								
Skin sensitization:		mation availa						
Respiratory sensitiz	ration: No infor	mation availa	ıble.					



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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)		-	1
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	-
Subacute dermal	No 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 availa	information able	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic inhalation	No availa		No information available	No information available	No information available	No information available	-
-							
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):	i	
			<u> </u>	Specific effects		rgan	Note
Subacute oral			tion available		No information		
Subacute derma		No informa	tion available		No information	n available -	



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Subacute inha	alation	No information available			No information available	_			
Subchronic or	ral	No information available	ļ		No information available	-			
Subchronic de	ermal	No information available			-				
Subchronic in	ronic inhalation No information available				-				
Chronic oral	nic oral No information available				No information available	-			
Chronic derm	al	No information available			No information available	-			
Chronic inhala	ation	No information available			No information available	-			
CMR	effects (c	arcinogenicity; mutagenici	ty; re	eproductive	toxicity)				
Carci	inogenicit	y:	Bas	sed on avail	able data, the classification	criteria are not met.			
Muta	Mutagenicity in vitro:			sed on avail	able data, the classification	criteria are not met.			
Geno	Genotoxicity:			Based on available data, the classification criteria are not met.					
Muta	Mutagenicity in vivo:			sed on avail	able data, the classification	criteria are not met.			
Gern	Germ cell mutagenicity:			sed on avail	able data, the classification	criteria are not met.			
Repr	oductive t	oxicity:	Bas	sed on avail	able data, the classification	criteria are not met.			
	mary of erties:	evaluation of the C	MR	Based on met.	available data, the classif	cation criteria are not			
11.2 Infor	mation or	other hazards:							
11.2.1. Endo	crine disr	upting properties:							
comp disru Artic regu	substance ponents c pting pro le 57(f) lation (EU ulation (EU er.								
11.2.2. Othe	er informat	tion:							
_									

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



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Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inforr availa	mation Ible	-
Algae/aquatic plants		IC ₅₀	4 days	No information available	No information available	No inforr availa	nation Ible	-
Other organism	er organisms		-	-	-	-		-
Chronic (long-t toxicity	- LINSE		Exposur time	e Species	Method	Eva	luation	Note
Fish	h LC ₅₀ 96 ho		96 hours	No information available	No information available	No inforr availa	nation ble	-
Crustacea: E		EC ₅₀	48 hours	No information available	No information available	No inforr availa	nation ble	-
Algae/aquatic plants		IC ₅₀	72 hours	No information available	No information available	No inforr availa	mation Ible	-
Other organisms		-	-	-	-	-		-
	tence ai	nd degradab	ility					
	c degra		•	Method	Evaluatio	on		Note
Abioti	c degra De	adation	alf-lives	Method No information available	Evaluatio No informatio available		_	Note
Abioti	c degra De No ir	adation egradation ha	alf-lives vailable	No information	No informatio	n	-	Note
	c degra De No ir No ir	egradation ha	alf-lives vailable vailable	No information available No information	No informatio available No informatio	on on		Note
Abioti Marine water Fresh water	No ir	egradation har egradation har enformation a	alf-lives vailable vailable vailable	No information available No information available No information	No informatio available No informatio available No informatio	on on	-	Note
Abioti Marine water Fresh water Air Soil	No ir	egradation had a formation as a form	alf-lives vailable vailable vailable	No information available No information available No information available No information	No information available	on on	-	Note
Abioti Marine water Fresh water Air Soil	No ir No ir No ir	egradation had a formation as a form	vailable vailable vailable vailable	No information available No information available No information available No information	No information available	on on on	-	Note



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Trading name:					
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12.3	Bioaccumu	lative p	otential								
	Octanol-wa	ater par	tition coeffi	cient (log Kow)						
Value	e Cor	centrat	ion pl	-1	°C	М	ethod	Eva	luation		Note
-	-		-	•				-		-	
	Bioconcent	tration f	actor (BCF)								
V	Value Species Method Evaluation Note										
No info		No availab	inform ble	ation	No info		n	No informa	ation	-	
	<u>. </u>							<u> </u>		<u> </u>	
	Chronic ec	otoxicit	у								
	Value		Dose	-	posure Species		Method	E۱	/aluation	Note	
Chronic	toxicity on	fish	LC ₅₀	No information available		No inforr availa	nation Ible	No informatio available	1	ormation ilable	-
	toxicity on ea (<i>Daphnia</i>)		EC ₅₀	No information available		No inforr availa	mation Ible	No informatio available		ormation ilable	-
			:								:
12.4	Mobility in	soil									
			d distribution	on in e	nvironm	ental c	ompart	ments:			
	No informa		ailable								
	Surface ter Value	nsion:	°C			4 :		N A a tha a al		T	Nata
	No	No		C	oncentra	tion		Method			Note
	information available	n info	ormation ailable		informa ilable			ormation ble		-	
	Adsorption	. / doco	rntion								
	Ausorption	i / ues0	ιριισιί								



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Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-water	No information available	No information available	No information available	No information available	-
Water-air	No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5 Re	esults of PBT and vPvB asses	ssment			
ac	ne substance/mixture does cording to REACH Article 5 egulation (EU) 2018/605 at l	7(f) or Commission	n Delegated regulation		
12.6. Er	ndocrine disrupting propert	ies			
ac	ne substance/mixture does cording to REACH Article 5 egulation (EU) 2018/605 at l	7(f) or Commission	n Delegated regulation		
12.7 O	ther adverse effects				
N	o further relevant informati	on available.			
SECTION 1	13. Disposal consideration	•			
	Waste treatment methods	5			
	Product/Packaging disposa Submit for disposal to the I Protection.		rized by the Ministry of	Environmental	and Nature
13.1.2.	Waste codes/waste designa	ations according to	o Law:		
	15 01 10*: Packaging that c substances	ontains residual h	azardous substances or	is contaminated	d with hazardous
13.1.3.	Waste treatment – relevant	information:			
	No information available				



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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:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.					
13.1.6.	Relevant Community pro	visions:				
	Disposal must be made a	ccording to official regulations.				
SECTIO	N 14. Transport information	on				
	Transporting/shipment by	road (ADR)				
UN num	iber:	Not subject to transport regulations				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environr	mentally hazardous:	-				
Special	orecautions for user:	-				
	Transporting/shipment by	rail (RID)				
UN num	lber:	Not subject to transport regulations				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environr	mentally hazardous:	-				
Special	orecautions for user:	-				
	Inland waterway transport	(ADN)				
UN num	iber:	Not subject to transport regulations				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environr	mentally hazardous:	-				
Special	orecautions for user:	-				
	Transporting/shipment by	sea (IMDG)				
UN num	ıber:	Not subject to transport regulations				
UN prop	per 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 (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: -	

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



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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	ECTION 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 (number	er and full text)				
	H: -	-				
16.6.	Training advice:	-				
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.				

ANNEX: Exposure scenario resulting to chemical safety assessment



SAFETY DATA SHEET

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

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Trading name:	ORANGE G, 1% SOLUTION				
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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: F	PHOSPHO	OTUNGST	STIC ACID, 5% SOLUTION	
	Chemical name: -				
	Product code: F	VK5-OT-	-X**		
1.2.	Relevant identified uses	s of the s	substance	ce or mixture and uses advised against	
	Uses:			For use with special staining kits.	
	Uses advised against:			Only the identified uses are advised.	
	Reason why uses advised against:		st:	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:		BioGnost	nost Ltd.	
	Address:		Medjugo	ljugorska 59, Zagreb	
	Telephone number:		+385 1 2	85 1 2409997	
	Telefax:		+385 1 2	5 1 2404039	
	e-mail of competent pe	erson:	msds@b	ls@biognost.hr	
	National contact:	National contact:			
1.4.	Emergency telephone numbers				
	National Protection and	d Rescue	Director	rate: 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 R	Regulation (EC) N	lo 1272/2008 (CLP)			
	Hazard class and cat	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	es see Section 16				
2.2.	Label elements					
	Product identification: PHOSPHOTUNGSTIC 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	
		ting properties. tains no components considered to be either persistent, bioaccumulative iistent 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		

SECTIO	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 immedi	ate medical attention and special treatment needed	
	Treat symptomatically.		

SECTIO	TION 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					
	, ,	ing due to increase in pressure. Remove sources of heat and nvironment 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. Th	horoughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incon	npatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.				
	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.				



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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:	-

SECTIO 8.1.			JRE COI	NTROLS / P	ERSONA	AL PRO	OTECTIO	N			
0.1.	Substa	<u> </u>	nameter	CAS I	No		•	exposure t		В	Biological limit values
						ppm	mg/m³				
-				-			-	-			-
Substar	nce:	-		T				Γ			
EC No:		-		CAS No:	-						
DNEL											
							dustrial				GI
Route c	of expos	ure:		te effect		ute ef			nic effe	ect	Chronic effect
Oral			_	ocal	S	ystem	IC	local			systemic
Oral Inhalati	on		_		_			-			-
Dermal			_		-			-			_
		lnara		solubility, fl	- ammahil	ity co	rrocivity		_		-
Critical	priysica	Грага	ineters.	30idbility, II	ammabii	-	nsumer				
			Δcu	te effect	Δς	ute ef		Chron	nic effe	ect	Chronic effect
Route c	of expos	ure:		local		ystem		local			systemic
Oral			-		-	-		-			-
Inhalati	on		-		-			-			-
Dermal			-		-			-			-
PNEC					·						
Environ	mental	prote	ction tai	rget			PNEC				
Fresh w	ater						No info	rmation av	ailable	9	
Freshwa	ater sed	liment	ts				No info	rmation av	ailable	9	
Marine	water						No info	rmation av	ailable	9	
Marine	sedime	nts					No info	rmation av	ailable	9	



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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:	Use personal protective equipment 1)0 not eat drink or				
	Structural measures to prevent exposure:	No information available				
	Organisational measures to preven 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:	Handle 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 it.				
	Other skin protection:	No specific protective equipment required.				
8.2.2.3.	Respiratory protection:	Use when overexposure potential. Improper use of respirators is dangerous.				
8.2.2.4.	Thermal hazards:	No information available				
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Section 6				
	Structural measures to prevent exposure:	Use modern equipment.				
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to prevent exposure:	See Section 6				



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

SECTIO	ON 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).
-------	-----------------------------------	--

	nformation on toxicological effects							
Acu	te toxicity:							
Route of exposure:	Metho	d Sp	ecies	Effect Do LD ₅₀ /L ATE _n	se .C ₅₀ or	Exposui time	re	Results
Oral:	No inform availab		-	N inform avail	nation	-		-
Dermal:	No inform availab		-	inform	No information available			_
Inhalation:	No inform availab		-	inform	No information available			_
Spe	cific target organ t	, ,	•	STOT-SE):	Tava	21 04000		Noto
		Specific effe	ects	s Target org		et organ		Note
Oral:	No informa	tion available			_		_	
Oral:		tion available			-		-	
Dermal:	No informa	tion available			-		-	
	No informa				-		-	
Dermal: Inhalation:	No informa	tion available	-		-		-	
Dermal: Inhalation:	No informa No informa	tion available	-		-		-	
Dermal: Inhalation: Asp	No informa No informa iration hazard:	tion available tion available	-				-	
Dermal: Inhalation: Asp	No informa No informa iration hazard: ation and corrosio	tion available tion available n Exposure time	- Spec	ies	- - -	on N	-	Note
Dermal: Inhalation: Asp	No information hazard: Ation and corrosion Expriration:	tion available tion available n Exposure time		ies -		on N	-	Note mild skin irritation



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Respiratory sensitization:	NO INTORMATION AVAILANIA								
Symp	toms relate	d to ph	ysical, chemica	, and toxicologi	cal properties				
Oral exposure:		No kno	own specific syr	nptoms.					
		No kno	own specific syr	nptoms. May ca	use skin irritatio	n.			
Inhalation expo	sure:	No kno	own specific syr	nptoms.					
Eye exposure:		No kno	own specific syr	nptoms. May ca	use mild eye irrit	tation.			
Repe	ated dose to	oxicity (subacute, subcl	nronic, chronic)					
	Dose	e	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No inforn available	nation	No information available	No information available	No information available	No information available	No information available		
Subacute dermal	No inforn available	nation	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 inforn available	nation	No information available	No information available	No information available	No information available	No information available		
Subchronic dermal	No inforn available	nation	No information available	No information available	No information available	No information available	No information available		
Subchronic inhalation	No inforn available	nation	No information available	No information available	No information available	No information available	No information available		
Chronic oral	No inforn available	nation	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	No information available		
Chronic inhalation	No inforn available	nation	No information available	No information available	No information available	No information available	No information available		



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

		Specific effect	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		
Subchro	nic dermal	No information avail	able	No information available	No information available		
Subchro	nic inhalation	No information avail	able	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.		No information available		No information available	No information available		
	CMR effects (carcin	ogenicity, mutagenicity,		<u>*</u>			
	Carcinogenicity:		Based met.	d on available data, the classif	ication criteria are not		
	Mutagenicity <i>in-vitro</i> : Genotoxicity: Mutagenicity <i>in-vivo</i> :		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.				
	Germ cell mutagen	icity:	Based on available data, the classification criteria are not met.				
	Reproductive toxicity:		Based on available data, the classification criteria are not met.				
	Summary of eva properties:	luation of the CMR	No in	formation available			
11.2.	Information on oth	her hazards:					
11.2.1.	Endocrine disrupting properties:						
	No known endocrii that affect human l	ne disrupting properties nealth.					



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Trade name:		PHOSPHOTUNGSTI	C ACID, 5% SOLUTION		
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11.2.2.	Other informations:

SECTION 1	2. Ecologic	al informa	ation							
12.1. To	oxicity									
Acute (shor toxicity	t-term)	Dose	Exposui time	re	Species	Мє	ethod	Evaluation		Note
Fish		LC ₅₀	96 hours	-		-		-	-	
Crustacea:		EC ₅₀	48 hours	-		-		-	-	
Algae/aqua	itic plants:	IC ₅₀	72 hours	-		-		-	-	
Other organ	nisms	-	-	-		-		-	-	
Chronic (long-term) toxicity		Doza	Exposui time	re	Species	Мє	ethod	Evaluation		Note
Fish		LC ₅₀	96 hours	-		_		-	_	
Crustacea:		EC ₅₀	48 hours	-		-		-	-	
Algae/aqua	itic plants:	IC ₅₀	72 hours	-		-		-	-	
Other organisms		-	-	-		-		-	-	
12.2. Pe	ersistence a	nd degrad	ability							
Al	biotic degra	adation								
	Degr	adation ha	lf-lives		Method			Evaluation		Note
Marine water	No infor	mation ava	ailable	No info	rmation availat	ole	No inf	ormation ole	-	
	No infor	mation ava	ailable	No info	rmation availab	ole	No inf	ormation	_	

Degradation half-lives Method Evaluation Note Marine water 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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	Octanol-\	water	partition	coefficien	t (log k	(ow)						
Value	Cor	ncentr	ration	рН	°C	١	/lethod		Evaluat	ion		Note
No informatio available			nation -		-	No in availa	formation ble		No informa available	tion	-	
	Bioconce	entrati	ion Factor	(BCF)								
Valu	ıe		Species	5		Metho	od		Evaluation			Note
No inform available		No in availa	nformation able	1	No in availa	iformat able			information ilable	1	-	
	Chronic e	ecoto	xicity				i					
V	Value Dose :		Expos tim	: Species :		ľ	Method Evalu		luation	Note		
Chronic to	, , ,		No informa available			nation		ormation ilable	1		-	
Chronic toxicity on EC ₅₀ in		information i		No inforr availa	nation		ormation ilable	No infor availa	mation able	-		
12.4.	Mobility	in coil										
	Mobility i Known or			ribution in	n envir	onmen	tal compar	tme	ents:			
	Surface to	ensior	า:									
	Value		°C	С	Concentration			Me	ethod			Note
	No No No information available No information available		nformation able -									
	Adcorption	on / d	locaration									
	<u>_</u>		desorption				- ·					
Transport	•	-	efficient constant	lo	og Kow		Evaporation rate	on	Me	thod		Note



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Trade n	ame:		PHOSPHO	TUNGSTIC AC	ID, 5% SOLUTION		
Product	roduct code: FVK5-OT-X**		Date of com	pilation: 14	November 2023	Version:	6
Soil-wa		o information vailable	No information available	No information available	No information available	-	
Water-a		o information vailable	No information available	No information available	No information available	-	
No information available		No information available	No information available	No information available	-		
12.5.	Results	s of PBT and vPvB as	ssessment				
			•		to be either persisten		ve
	and to	xic (PBT), or very pe	rsistent and very bi	oaccumulative ((vPvB) at levels of 0.1%	6 or higher.	
	-						
12.6.	Endocr	ine disrupting prop	erties				
	The su	bstance/mixture do	es not contain com	ponents consid	ered to have endocrin	e disrupting	
		_			Delegated regulation (EU) 2017/2100 c	or
	Comm	ission Regulation (E	U) 2018/605 at leve	els of 0.1% or hi	gher.		
	1						
12.7.	Other a	adverse effects					
	No info	ormation available					
SECTIO	N 13. Di	sposal considerati	ons				
13.1.	Waste	treatment methods					
13.1.1.	Produ	uct/Packaging dispo	osal:				
. , , , ,				norized by the N	Ministry of Environmen	ntal and Nature	
		ection.					
	i						
13.1.2.	Wast	e codes/waste desig	gnations according	to Law:			
		osal must be made a	3				
				. 9			
13.1.3.	Wast	e treatment – releva	ant information:				
		nformation available					
	1.50 //						
13.1.4.	Sewa	ge disposal – releva	ant information:				
		e must not be dispo		vage system.			
				<u> </u>			
13.1.5.	Otho	r disposal recomme	indations:				
13.1.3.	Othe	i disposai recomme	Tidations.				



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	Do not dispose of the produ	act's remains into the sewage system. Submit the remains to the collectors
	authorized by the ministry ir	charge. Do not dispose of the packaging into the sewage system. Submit
12.1.6		ors authorized by the ministry in charge.
13.1.6.	Relevant Community provisi	ons:
	-	
CECTION	I 14 Transport information	
SECTION	I 14. Transport information	od (ADB)
UN numl	Transporting/shipment by roa	
		Not subject to transport regulations
	er shipping name:	
•	t hazard class(es):	
Packing (
	nental hazards:	
Special p	recautions for user:	-
	Transporting/shipment by rai	
UN numl	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing (group:	-
Environm	nental hazards:	-
Special p	recautions for user:	-
	Transporting/shipment by inla	and waterways (ADN)
UN numl	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing (group:	-
Environm	nental hazards:	-
Special p	recautions for user:	-
	Transporting/shipment by sea	a (IMDG)
UN numl	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing		-
	nental hazards:	-
Special p	recautions for user:	-



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Trade name:		PHOSPHOTUNGSTI	C ACID, 5% SOLUTION		
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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: -	

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:	PHOSPHOTUNGSTIC ACID, 5% SOLUTION				
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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 assessme	nt
	-	

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.	6.4. Classification and procedu 1272/2008 (CLP)		re used to derive the classification for mixture according to Regulation (EC)		
Classific	cation		Classification procedure		
_			-		
16.5.	Relev	ant H statements (nu	mber and full text)		
		314	Causes severe skin burns and eye damage.		
	H:	315	Causes skin irritation.		
	H.	318	Causes serious eye damage.		
		319	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.		

ANNEX: Exposure scenario resulting to Chemical safety assessment



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

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

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

SECTION	ON 1. Identification of	the substance	ce/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	REAGENT	FOR DIFFERE	NTIATION, VERHOEFF	
	Chemical name:	-			
	Catalogue number:	RDV-OT-X	RDV-OT-X**		
1.2.	Relevant identified uses of the substance or mixture and uses advised against			xture and uses advised against	
	Uses:		For use w	ith special staining kits.	
	Uses advised against:		Only the i	dentified 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 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:	В	BioGnost Ltd.		
	Address:	١	Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039		
	Telephone number:	+			
	Fax no.:	+			
	e-mail of competent p	person: <u>n</u>	msds@biognost.hr		
	National contact:	_			
1.4.	Emergency telephone	number			
	National Protection ar	nd Rescue Di	rectorate:	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 Regulati	ion (EC) No 12	72/2008 (CLP)			
	Hazard class and category o	code:	Hazard statements*:			
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-state	ements: see S	ection 16			
2.2.	Label elements					
	Product identification:	REAGENT FOI	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 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)		
10025-77-1/ 600-047-2/ -	-	1 - 2 %	ferric chloride hexahydrate	Acute Tox. 4; H302 Skin Irr. 2; H315 Eye Dam.1; H318		

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



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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			
	-			

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

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protect	ive 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 (s	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:	REAGENT FOR DIFFERENTIATION, VERHOEFF					
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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

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	ion:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	ven	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:	Mar	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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Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

SECTION 8. Exposu	ıra cantr	ols/norson	al protoc	tion			
8.1. Control pa		ois/persona	ii protec	lion			
Substance					Occupational exposure limit values/short term values		Biological limit values
					ppm	mg/m³	
			_	-	No information available		
Substance name:							
EC No: -		CAS No:	-				
DNEL							
				Inc	dustrial		
Route of	,	Acute		Acut	e	Chronic	Chronic
exposure:	effe	ect local	effe	ect sys	temic	effect loca	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
Critical physical para	ameters:	solubility, fla	ımmabili	ty, cor	rosivity:	-	
	_			Co	nsumer		
Route of exposure:		Acute ect local	effe	Acutect sys	e Chronic effect local		Chronic effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
PNEC							
Environmental prote	ection tar	get			PNEC		
Fresh water					No information available		
Freshwater sedimen	its				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	le
Air					INO INTOR	mation availabl	le



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Trading name:	REA	F			
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8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent expoduring identified uses:	Use the product in well ventilated rooms. Use personal pr				
	Structural measures to pr exposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	ment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) visor.				
8.2.2.2.	Skin protection	Skin protection				
			otective gloves must be according to the EU Directive 2016/425/EEC and andard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	ormation available			
8.2.3.	Environmental exposure of	controls				
	Substance/mixture related measures to prevent exposure:		See Section 6			
	Structural measures to pr exposure:	event	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pre exposure:	event	See Section 6			

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



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

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

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

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



Inhalation exposure:

Eye exposure:

No information available

No information available

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

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

Product code:	RDV-OT-X**	Date of	compilation: 2	21 Dec 2022	V	ersion: 4
Route of exposure:	Method	Method Species Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}		Exposure	e time	Results
Oral exposure:	No information available	-	LD ₅₀	-		_
Dermal exposure:	No information available	-	LD ₅₀	-		-
Inhalation exposure:	No information available	-	LC ₅₀	-		-
Specific ta	rget organ toxicity – si	ngle exposure (STOT SE):			
•	Specifi	ic effects	Target o	organ		Note
Oral exposure: No information a		available	No informat available	ion -		
Dermal exposure: No information		available	No informat available	ion -		
Inhalation exposure	e: No information	available	No informat available	No information - available		
Respirator	y irritation:	No infor	mation available			
Irritation a	and corrosion					
	Exposure time	Species	Evalua	tion	Met nod	Note
Skin irritation:	-	-	-	-	-	
Eye irritation:	-	-	-	-	-	
Sensitizati	on					
Dermal exposure:	No information avail	able				
Inhalation exposure:	No information avail	able				
Symptom	s related to the physica	al chemical and	toxicological char	acteristics		
Oral exposure:	No information av		toxicological chai	acteristics		
Dermal exposure:	No information av					



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

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

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



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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 informat	tion available	No information available	-		
Chronic	inhalation	No informat	tion available	No information available	-		
	CMR effects	(carcinogenicity	, mutagenicity, rep	roductive toxicity)			
	Carcinogenic			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 available data, the classification criteria are not met.				
	Mutagenicity	in-vivo:	Based on avail	Based on available data, the classification criteria are not met.			
	Germ cell mu	ıtagenicity:	Based on available data, the classification criteria are not met.				
	Reproductive	e toxicity:	Based on available data, the classification criteria are not met.				
11.2	Information of	on other hazard	s:				
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 inform	ation:					
	-						

SECTION 12. Ecological information								
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

		4: -	-l		4:
<i>-</i>	olda	TIC (degi	rada	τιοn

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

Produc	t code:	RD'	V-O1-X**		Date	of compil	ation:	21 Dec	202	22 V	ersion:	4
	D:		(, (DCF)									
		ntratio	on factor (BCF)			-411		F l			NI-4-	
	alue 		Species			ethod		Evaluation			Note	
No info		No avai	inform lable	ation	No infor available			informati ailable	on	No inform	nation av	ailable
	Chronic e	ecotoxi	icity									
	Value		Dose		osure ime	Species	١	Method		Evaluation	1	Note
Chronic	toxicity o	n fish	LC ₅₀	No infor availa	mation	No informatio available		ormation ailable	1	o informatio vailable	on -	
	toxicity o		EC ₅₀	No infor availa	mation	No informatio available	1	ormation ailable		o informatio vailable	on -	
	No inform	nation	cted distributi available	on in e	environme	ental comp	artmen	ts:				
	Surface t							.1 1		<u> </u>		
	Value		°C	Concentration		IVI	Method			Note		
	No informati available	on	No information available	No information available			on No information available			-		
	Adsorpti	on / de	esorption									
Transpo	rt		pefficient s constant	lo	og Kow	Ev	/aporat	ion rate		Meth	od	Note
Soil-wat	er No avai	lable	information	No ir availa	nformation able	n No info	ormatio	n available	9	No inform available	nation	-
Water-a	ir No avai	lable	information	No ir availa	nformatio able	n No info	ormatio	n available	2	No inform available	nation	-
Soil-air	No avai	lable	information	No ir availa	nformatio able	No info	ormatio	n available	2	No inform available	nation	-



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Trading name:		REAGENT FOR DIFFERENT	IATION, VERHOE	·F
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF				
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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	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 (II	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (IC	CAO-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:		:FF		
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 restrictions of use						
	Authorizations:	-					
	Restrictions:	-					
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);					
	Information according 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.	5.2. 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			
	17		vi vb. Very i ersistent and very bloaccumulative			
16.3.	Key literature references and source of data:		-			
16.4.	.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classifi	icatio	n	Classification procedure			
-			-			
16.5.	Rel	evant H statements (numb	per and full text)			
		302	Harmful if swallowed.			
	H:	315	Causes skin irritation.			
		318	Causes serious eye damage.			
16.6.	Tra	ining advice:	-			
16.7.	tl 7. Further information: V		** "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			
			nstructions for use or improper use of the product described in this material safety data sheet.			

Λ	N	N	ᆮ	X:
~	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 a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	SODIUM	1 THIOSULFATE	, 5% SOLUTION	
	Chemical name:	-			
	Catalogue number:	NT5-OT	-X**		
1.2.	Relevant identified us	es of the si	ubstance or mix	xture and uses advised against	
	Uses:		For use with	special staining kits.	
	Uses advised against:		Only the ider	ntified uses are advised.	
	Reason why uses advi	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 safe	ety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection ar	nd Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:	Other information:		-	

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category	code:	Hazard statements*:			
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For fu	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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	Signal word:	-			
	Hazard statements:	-			
	Precautionary statements:	-			
	Further information:	-			
2.3.	Other hazards				
	Endocrine Disrupting Properties	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				

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



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

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

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



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

SECTION	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 wel 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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-		ols/person	ai protec	uon				
8.1. Control para	meters							
Substance CAS				upational exposure limit lues/short term values		Biological limit values		
				ppm	1	mg/m³		
-		-		-		-	No information available	
Substance - name:								
EC No: - CAS No: -								
DNEL			·		•			
				Indust	rial			
Route of	A	Acute		Acute		Chronic	Chronic	
exposure: eff		ect local	effe	ct system	ic	effect local	effect systemic	
Oral				-	-			
Inhalation -			-		-	-		
Dermal	-		-			-	-	
Critical physical para	meters: s	solubility, fla	ammabili	ty, corrosi	vity:	-		
				Consu	mer			
Route of	A	Acute		Acute		Chronic	Chronic	
exposure:	effe	ect local	effect syste		temic effect local		effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC								
Environmental protection	ction tar	get		PN	PNEC			
Fresh water				No	o inform	ation available		
Freshwater sediment	S			No	No information available			
Marine water				No	inform	ation available		
Marine sediments			No	No information available				
Food chain			No	No information available				
Microorganisms in sewage treatment			No	No information available				
Soil (agricultural)				No	inform	ation available		
Air					No information available			



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8.2.	Exposure controls					
8.2.1.	Engineering measures	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to pre exposure:	event	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equip	ment				
8.2.2.1.	Eye and face protection:	Safety places that stick to face (preventing splaching) (EN 166				
8.2.2.2.	4					
			tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	ormation available			
8.2.3.	Environmental exposure of	ontrols				
	Substance/mixture related measures to prevent exposure:		See Section 6			
	Structural measures to pre exposure:	event	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pre exposure:	event	See Section 6			

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



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

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

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



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



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

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



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

SECTION 12. Ecological information									
12.1. Toxicity									
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC 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. Pers	istence and degradability			
Abio	tic degradation			
	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

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

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



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



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12.5.	Results of PBT and vPvB assessment
***************************************	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.6.	Endocrine disrupting properties
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7.	Other adverse effects
	No information available
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
1216	Relevant Community provisions:
13.1.6.	



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

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



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

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



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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 (number	er and full text)	
	H: -	-	
16.6.	Training advice:	-	
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

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Exposure scenario resulting to Chemical safety assessment

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