

# MASSON TRICHROME KIT

The kit contains:

Acetic acid, 1% solution Aniline Blue reagent Biebrich Scarlet-Acid Fuchsin reagent Bouin's solution Ferri reagent, Weigert B Hematoxylin, Weigert A P.T.A.-P.M.A. reagent



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Trading name:	ACETIC ACID, 1% SOLUTION					
Product code:	OK1-OT-X**	Date of compilation:	23 Dec 2022	Version:	4	

1.1	Product identifier					
	Trading name:	ACETIC ACID, 1% SOLUTION				
	Chemical name:	-	-			
	Catalogue number:	OK1-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 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:	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue Dire	ectorate:	112		
	Medical information:			-		
	Other information:			-		

SECTION 2. Hazards identification					
2.1	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:	Hazard statements*:		
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	ACETIC ACID, 19	% SOLUTION		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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	Signal word: -
	Hazard statements: -
	Precautionary statements: -
	Supplemetal hazard
2.3	Other hazards
	The product has no other known specific hazards for human or environment.
	Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
64-19-7/ 200-580-7/ 607-002-00-6	-	1 %	acetic acid, glacial 99%	Flam. Liq. 3; H226 Skin Corr. 1A; H314			

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



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

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	water spray, dry powder, CO2 or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet.			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products: r	no information available			
5.3	Advice for firefighters				
	Use a self-contained open-circuit co	mpressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with w contaminate the environment with e	vater spray. Collect contaminated firefighting water separately. Do not extinguishing media.			

SECTIO	DN 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 case of inadequate ventilation use adequate airways protective (see Section 8).					
6.2	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3	Methods and material for conta	inment and cleaning up				



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

SECTION 7. Handling and storage							
7.1	7.1 Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire: Use in well ventilated storage rooms. K away from sources of ignition and hear not use tools that cause sparks. Do not smoke.						
	Measures to prevent aerosol and dust generation	ו:	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	proughly was	sh hands after work and before eating.				
7.2	Conditions for safe storage, including any incom	patibilities					
	Technical measures and storage conditions:	well ventila	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.				
	Packaging materials:	Manufactu	urer's original packaging.				
	Requirements for storage rooms and vessels: Keep away from food and drink. Keep the containers tightly closed.						
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.				



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

SECTION 8. Expos	ure contro	ols/perso	onal pr	otecti	ion				
8.1 Control pa	rameters								
Substance		CA	S No		valu		exposure limit term values mg/m <sup>3</sup>	Biol	ogical limit values
Acetic acid		64	-19-7			/20	25/50		-
· · · · · · · · · · · · · · · · · · ·									
Substance name: -									
EC No:	-	CAS No	:	-					
DNEL									
					Indu	strial			
Route of exposure:	Acu effect			Acute ct syst			Chronic effect local		Chronic effect systemic
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-			-		-	
Critical physical par	rameters: s	olubility,	flamm	ability	, corrc	osivity:	-		
	•				Cons	sumer			
Route of exposure:	Acu effect		effe	Acute ct syst			Chronic effect local		Chronic effect systemic
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-			-		-	
PNEC									
Environmental protection target PNEC									
Fresh water     no information available									
Freshwater sediments no information available									
Marine water					n	no inform	nation available		
Marine sediments					n	no inform	nation available		



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Food chai	in	n	o information available
Microorga	anisms in sewage treatment	n	o information available
Soil (agric	cultural)	n	o information available
Air		n	o information available
	-		
8.2	Exposure controls		
8.2.1.	Appropriate engineering controls		
	Substance/mixture related measures prevent exposure during identified u	pi	se the product in well ventilated rooms. Use personal rotective equipment. Do not eat, drink or smoke in the vorkspace.
	Structural measures to prevent exposure:	In	accordance with Section 7.
	Organisational measures to prevent exposure:		organization of work in order to reduce other worker's offluence during work process.
	Technical measures to prevent expo	sure: co	ecure proper workspace ventilation in order to keep oncentration levels in air below permitted levels. Secure tations for rinsing eyes and showering.
8.2.2.	Personal protection equipment		
8.2.2.1.	Eye and face protection:	evels of c	sses that stick to face (EN 166) or visor in case of lower concentration in air; protective gas mask that covers the e in case of higher levels of concentration in air.
8.2.2.2.	Skin protection		
		egulation G G	ctive gloves have to satisfy the specification of n (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min
	f Other skin protection: e ii	During ev botwear, ntire foo mpermea	ery day work use cotton clothing (EN 340) and suitable such as rubber boots (EN 20345) or shoes that cover the it. In case of spilling hazard, use clothing made of able material suitable for protection from liquid chemicals (C, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection: v	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GV	
8.2.2.4.	Thermal hazards:	lo inform	nation available
8.2.3.	Environmental exposure controls		
	Substance/mixture related seasures to prevent exposure:	ee Sectic	on 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:	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	
F	Flammability:	No information available	No information available	
	Lover and upper explosion limit:	No information available	No information available	
	Flash point:	No information available	No information available	
	Auto-ignition temperature:	No information available	No information available	
	Decomposition temperature:	No information available	No information available	
	pH:	No information available	No information available	
	Kinematic viscosity:	No information available	No information available	
	Solubility:	No information available	No information available	
	Partition coefficient n- octanol/water (log value):	No information available	No information available	
	Vapour pressure:	No information available	No information available	
	Density and/or relative density:	No information available	No information available	
	Relative vapour density:	No information available	No information available	
	Particle characteristics:	No information available	No information available	

SECTION 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	Condition	s to avoid:	No information available	No information available				
10.5	Incompati	ble materials:	No information available					
10.6	Hazardous	s decomposition produc	ts: No information available	No information available				

SECTION 11. To							
		classes as defined i	n Regu	lation (EC) No 12	.72/2008		
Acute to Route of exposure:	Method	Species	Do	ose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub> Exposure t		time	Results
Oral:	-	No information available		-	No informati available	on	-
Dermal:	-	No information available		-	No informati available	on	-
Inhalation:	- No informa available			-	No informati available	on	-
Specific		xicity – single expc	osure (S	TOT SE):			
		Specific effects		Target organ			Note
Oral:	No informa	tion available		No information available			
Dermal:	No informa	tion available	No information available -				
Inhalation:	No informa	tion available		No information available -			
Aspirati	on hazard:	Ν	o inforr	nation available.			
Irritatio	n and corrosion						
	Exp	osure time	Speci	es Evaluat	ion Metho	d	Note
Skin corrosion/irritati	on:	-		-	-	-	
Serious eye damage/irritatio	n -	-		-	-	-	
Sensitiz	ation						
Skin sensitization	n: -						
Respiratory sens	itization: -						



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	Harmful if sv	larmful if swallowed.						
Dermal exposure	e: Harmful if al	absorbed through skin. May cause skin irritation.						
Inhalation expos	ure: Harmful if in	haled. May cau	ise respiratory t	ract irritation.				
Eye exposure:	May cause e	ye irritation.						
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)					
	Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No information available	No information available	No information available	No information available	No information available	-		
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-		
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-		
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-		
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-		
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-		
Chronic oral	No information available	No information available	No information available	No information available	No information available	-		
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-		
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-		



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		1						
Subacute o	oral	No information	available	No	information available	-		
Subacute o	dermal	No information	available	No	information available	-		
Subacute i	nhalatio	n No information	available	No	information available	-		
Subchronio	c oral	No information	available	No	information available	-		
Subchronio	c dermal	No information	available	No	information available	-		
Subchronio	c inhalat	ion No information	available	No	information available	-		
Chronic or	al	No information	available	No	information available	-		
Chronic de	Chronic dermal No information availal		available	No	information available	-		
Chronic inl	halation	No information	available	No	information available	-		
G G G R G S	CMR effects (carcinogenicity; mutageni         Carcinogenicity:         Mutagenicity in vitro:         Genotoxicity:         Mutagenicity in vivo:         Germ cell mutagenicity:         Reproductive toxicity:         Summary of evaluation of the			sed on available o sed on available o Based on available	lata, the classification lata, the classification lata, the classification lata, the classification lata, the classification lata, the classification lata, the classification	criteria are not n criteria are not n criteria are not n criteria are not n criteria are not n	net. net. net. net.	
p	roperties	5:		met.				
11.2. In	Iformatio	on on other hazards:						
11.2.1. Er	ndocrine	disrupting properties:	:					
		available data, does disruptors.	not contain	-				
11.2.2. O	ther info	ormations:						
-								

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



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Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No inforn availa	nation ble	-
Algae/aquatic p	Algae/aquatic plants IC <sub>50</sub> 4 days		4 days	No information available	No information available	No inforn availa	nation ble	-
Other organism	าร	-	-	-	-	-		-
Chronic (long-t toxicity	erm)	m) Dose Exposure time		e Species	Method	Evalu	uation	Note
Fish		LC <sub>50</sub> 96 hours		No information available	No information available	No inforn availa	nation ble	-
Crustacea:	tacea: EC <sub>50</sub> 48 hours		No information available	No information available	No inforn availa	nation ble	-	
Algae/aquatic plants		IC <sub>50</sub>	72 hours	No information available	No information available	No information available		-
Other organism	าร	-	-	-	-	-		-
	c degra							
		1	10.11					
	De	gradation ha	lif-lives	Method	Evaluatio			Note
Marine water		gradation ha		Method No information available	Evaluatio No informatio available		-	Note
Marine water Fresh water	No ir	-	vailable	No information	No informatio	'n	-	Note
	No ir No ir	nformation a	vailable vailable	No information available No information	No informatio available No informatio	n n		Note
Fresh water	No ir No ir No ir	nformation a	vailable vailable vailable	No information available No information available No information	No informatio available No informatio available No informatio	n n n		Note
Fresh water Air Soil	No ir No ir No ir	nformation and an formation and an	vailable vailable vailable	No information available No information available No information available No information	No informatio available No informatio available No informatio available No informatio	n n n		Note
Fresh water Air Soil	No ir No ir No ir No ir	nformation and an formation and an	vailable vailable vailable vailable	No information available No information available No information available No information	No informatio available No informatio available No informatio available No informatio	9n 9n 9n		Note



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12.3	Bioaccumu	ılative p	otential								
	Octanol-w	ater par	rtition coef	icient (	log Kow	()					
Value	Cor	ncentrat	tion p	н	°C	Me	ethod	Evaluation			Note
-	-		-		-	-		-		-	
	Bioconcen	tration	factor (BCF	)							
Va	lue		Species			Method		Evaluati	on		Note
No infor		No	inform	nation		ormatio	n	No informati	on	_	
available		availat	ole		availat	ole		available			
	Chronic ec	otoxicit	:y					Í.			
	Value		Dose	Exposure time		Spe	ecies	Method	Evaluation		Note
				No				No	No		
Chronic 1	toxicity on	fish	LC <sub>50</sub>	information available		inforr availa	nation ble	information available	inform availab		-
Chronic 1	toxicity on			No				No	No		
	a (Daphnia	)	EC <sub>50</sub>	infor avail	mation	information available		information available	inform availab		-
				avaii	able	avalla	DIE	avallable	availat	ne	
12.4	Mobility in	soil									
			ed distribut	ion in (	nvironn	oontal c	ompart	monts:			
	No inform	-					ompart				
	Surface ter										
	Value		°C		oncentra	ation		Method			Note
	No	Nc	-								INDLE
	informatio		ormation		informa	ation		ormation	-		
	available	ava	ailable	ava	ailable		availat	JIE			
	Adsorptior	n / deso	orption								



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

12.5	Results of PBT and vPvB assessment
	Based on available data, the product does not contain any PBT or vPvB substances.
12.6.	Endocrine disrupting properties
	Based on available data, does not contain endocrine disruptors.
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:
	15 01 10*: Packaging that contains residual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevant information:
	No information 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 recommer	ndations:	
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.	
13.1.6.	Relevant Community prov	visions:	
	-		
SECTION	N 14 TRANSPORT INFORM	IATION	
	Transporting/shipment by r	road (ADR)	
UN num	ber:	Not subject to transport regulations	
UN prop	er shipping name:	-	
Transpo	rt hazard class(es):	-	
Packing	group:	-	
Environr	nentally hazardous:	-	
Special p	precautions for user:	-	
	Transporting/shipment by r	rail (RID)	
UN num	ber:	Not subject to transport regulations	
UN prop	er shipping name:	-	
Transpo	rt hazard class(es):	-	
Packing	group:	-	
Environr	nentally hazardous:	-	
Special p	precautions for user:	-	
	Inland waterway transport (	(ADN)	
UN num	ber:	Not subject to transport regulations	
UN prop	er shipping name:	-	
Transport hazard class(es):		-	
Packing group:		-	
Environmentally hazardous:		-	
Special p	precautions for user:	-	
	Transporting/shipment by s	sea (IMDG)	
UN num	ber:	Not subject to transport regulations	
UN prop	er shipping name:	-	
Transpo	rt hazard class(es):	-	



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

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



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		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 assess	nent
	None	

SECTIO	SECTION 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>			



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Trading name:	ACETIC ACID, 1% SOLUTION				
Product code:	OK1-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

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

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:	ANILINE BLUE REAGENT				
Product code:	ABR-OT-X**	Date of compilation:	21 Dec 2022	Version: 5	

1.1.	ON 1: Identification of the substance/mixture and of the company/undertaking Product identifier				
1.1.	Trading name:		E BLUE REAGEN	IT	
	Chemical name:	AMILIM	DEUL REAGEN		
		- ABR-OT	· V**		
1.2.	Catalogue number:			xture and uses advised against	
1.2.		s of the s		Ŭ	
	Uses:			used with Masson Trichrome kit.	
	Uses advised against:		Only the ide	ntified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone number			
	National Protection an	d Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification						
2.1.	Classification of the substance or	mixture					
2.1.1.	Classification according to Regula	tion (EC) No 12	272/2008 (CLP)				
	Hazard class and category	code:		Hazard statements*:			
	Not identified as hazardous subst	ance.	-				
2.1.2.	Additional information						
	-						
*For ful	l text of Hazard- and EU Hazard-sta	tements: see S	ection 16				
2.2.	Label elements						
	Product identification:	ANILINE BLUI	E REAGENT				
	Identification number:	-					
	Authorization no.:	-					
	Hazard pictograms:	-					



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Trading name:	ANILINE BLUE REAGENT			
Product code:	ABR-OT-X**	Date of compilation:	21 Dec 2022	Version: 5

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

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

SECTI	ON 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: Following ingestion: Self-protection of the first aider:		No information available	
			No information available	
			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	information available	
4.3.	Indication of any immedia	te medi	cal attention and special treatment needed	
	-			

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



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Trading name:	ANILINE BLUE REAGENT				
Product code:	ABR-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

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

SECTIO	ON 6. Accidental release meas	ures			
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne	əl			
	Protective equipment:		Use personal protective equipment (see Section 8).		
	Accident prevention methods	5:	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:		Mark the area using proper signs.		
6.1.2.	For emergency responders:				
	Wear protective equipment (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Nationa 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	Sand or clay barriers.		
6.3.2.	Cleaning up:	materia in tightl ventilate persons Protecti	possible, the substance can be absorbed by using inflammable I (sand, diatomaceous earth, vermiculite). Place the waste material y closed impermeable containers. Store the substance in well ed storage rooms until disposal. Submit for disposal to the legal a authorized by the Ministry of Environmental and Nature on. After disposal of the products, wash the area and and involved Is with water.		
6.3.3.	Other information:	_			
6.4.	Reference to other sections				
	See Section 7 for information See Section 8 for information See Section 13 for informatio	about pe	ersonal protective equipment.		



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Trading name:	ANILINE BLUE REAGENT			
Product code:	ABR-OT-X**	Date of compilation:	21 Dec 2022	Version: 5

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

SECTION 8. Ex	SECTION 8. Exposure controls/personal protection						
8.1. Contr	ol parameters						
Substance		CAS No		exposure limit t term values	Biological limit values		
			ppm	mg/m <sup>3</sup>			
-		-	-	-	No information available		
Substance name:	-						



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								Tages et te	
Trading na	ame:				Α	NILINE B	LUE REAGENT		
Product co	uct code: ABR-OT-X**		Date o	Version: 5					
			_			-			
EC No:	-		CAS No:	-					
DNEL									
					Ind	lustrial			
Route of		4	Acute		Acute	e	Chronic	Chronic	
exposure:		effe	ect local	(	effect sys	temic	effect local	effect systemic	
Oral		-		-			-	-	
Inhalation		-		-			-	-	
Dermal		-		-			-	-	
Critical phy	sical para	meters: s	solubility, fla	mmal	bility, cor	rosivity:	-		
					Со	nsumer			
Route of			Acute		Acute	е	Chronic	Chronic	
exposure:		effe	ect local		effect sys	temic	effect local	effect systemic	
Oral		-		-			-	-	
Inhalation		-		-			-	-	
Dermal		-		-			-	-	
PNEC									
Environme	ntal prote	ction tar	get			PNEC			
Fresh water	r					No inforr	mation available		
Freshwater	sediment	S				No inforr	mation available		
Marine wat	er				No information available				
Marine sed	iments				No information available				
Food chain					No information available				
Microorgar	nisms in se	ewage tr	eatment		No information available				
Soil (agricu	ltural)				No information available				
Air					No information available				
8.2.	Exposur	e contro	ls						
8.2.1.	Approp	riate eng	ineering co	ntrols					
	measure		ire related vent exposu l uses:	re		•	n well ventilated rooms. U ot eat, drink or smoke in th		
	Structur exposur		ires to preve	ent	No information available				
	-	ational n exposur	neasures to e:		Organization of work in order to reduce other worker's influence during work process.				
	Technic exposur		res to preve	ent	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				



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Trading name:	ANILINE BLUE REAGENT							
Product code:	ABR-OT-X**	Date of compilation:	21 Dec 2022	Version: 5				

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		1			
	Hand protection:		otective gloves must be according to the EU Directive 2016/425/EEC and ndard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:		Vear antistatic clothing made of natural fibers (such as cotton) with long leeves (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	ormation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture relate measures to prevent exp		See Section 6			
	Structural measures to pr exposure:	revent	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			

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



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Trading name:Product code:ABR-OT-X**		ANILINE BLUE REAGENT							
		ABR-OT-X**	Date of compilation:	21 Dec 202	ec 2022 Version: 5				
	Decompo	osition temperature:	No information availab	le No	o information availabl	le			
	pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value):		No information availab	le No	o information availabl	le			
			No information availab	le No	No information available				
			No information availab	No information available					
			No information availab	le No	No information available				
	Vapour p	ressure:	No information availab	le No	No information available				
	Density a	nd/or relative density:	No information availab	le No	No information available				
	Relative v	apour density:	No information availab	le No	No information available				
	Particle cl	haracteristics:	No information availab	le No	o information availabl	le			
9.2.	Other info	ormation							
	-								

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	l 11. Toxic	ological information						
11.1.	1.1. Information on toxicological effects							
	Acute toxic	ity:						
Route of exposure		Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results		
Oral expo	osure:	No information available	-	LD <sub>50</sub>	-	-		
Dermal e	exposure:	No information available	-	LD <sub>50</sub>	-	-		
Inhalatio exposure		No information available	-	LC <sub>50</sub>	-	-		
	Specific tar	get organ toxicity – sir	ngle exposure (S	STOT SE):				
		Specific e	ffects	Target orga	n	Note		



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						Page 8	ot 16
Trading name:			<b>ANILINE BI</b>	LUE REAGI	ENT		
Product code:	ABR-OT-X**	Date of con		ompilation: 21 Dec 2022		Version:	5
	I I	÷					3
Oral exposure:	No informa	ation available	No infor	mation avai	lable	-	
Dermal exposure	e: No informa	ation available	No infor	mation avai	lable	-	
Inhalation expos	ure: No informa	ation available	No infor	mation avai	lable	-	
2							
Respira	tory irritation:	Ν	o information a	vailable			
Irritatio	n and corrosion		÷		÷	9	
	Exposure tim	e Speci	es Eva	aluation	Method	No	te
Skin irritation:	-	-	-		-	-	
Eye irritation:	-	-	-		-	-	
1							
Sensitiz	ation						
Dermal exposure	e: No information	available					
Inhalation	No information	available					
exposure:							
	ms related to the pl	•	al and toxicolog	jical charact	eristics		
Oral exposure:	No information						
Dermal exposure	e: No information	available					
Inhalation exposure:	No information	available					
Eye exposure:	No information	available					
	:						
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluatior	n Not	e
Subacute oral	No information available	No information available	No information available	No information n availabl	available	nation _	
Subacute dermal	No information available	No information available	No information available	No information n availabl	availahlo	nation _	
Subacute inhalation	No information available	No information available	No information available	No information n availabl	available	nation _	
Subchronic oral	No information available	No information available	No information available	No information n availabl	available	nation _	



Genotoxicity:

Mutagenicity *in-vivo*: Germ cell mutagenicity:

Reproductive toxicity:

Summary of evaluation of the CMR properties:

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

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Trading name:	ANILINE BLUE REAGENT						
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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	organ toxicity – rep	eated expo	sure (STOT RE):			
	Specific ef	fects	Target organ	Note		
Subacute oral	No information av	vailable	No information available	-		
Subacute dermal	No information av	vailable	No information available	-		
Subacute inhalation	No information av	vailable	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 av	vailable	No information available	-		
CMR effects (c	arcinogenicity, muta	ngenicity, re	productive toxicity)			
Carcinogenicit	y:	No information available				
Mutagenicity i	n-vitro:	No information available				

No information available No information available

No information available

No information available

-



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Trading name:	ANILINE BLUE REAGENT						
Product code:	ABR-OT-X**	Date of compilation:	21 Dec 2022	Version: 5			

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

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



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Trading name: ANILINE BLUE REAGENT						
Product cod	e: ABR-OT	Г-Х**	Date of compilation:	21 Dec 2022	Version:	5
Abio	tic degradation					
	Degradatio	on half-lives	Method	Evaluatio	n	Note
Marine water	No information	on available	No information available	No information available		
Fresh water	No information	on available	No information available	No information ava	ailable ·	-
Air	No information	on available	No information available	e No information available		-
Soil	No information	on available	No information available	No information ava	ailable -	•

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

Value	Species	Method	Evaluation	Note
No information available	No information available	No information available	No information available	No information available

Chronic ecotoxicit	ЗУ					
Value	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC <sub>50</sub>	No information available	No information available	No information available	No information available	-
Chronic toxicity on	EC <sub>50</sub>	No	No	No	No information	-



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Tradin	Trading name: ANILINE BLUE REAGENT												
Produc	ct code	e:	ABR-OT-X**			Date o	of co	mpilati	on:	21 Dec	2022	Version:	5
crustacea ( <i>Daphnia</i> )					nforma Ivailab		nforr Ivaila	mation able	-	rmation lable	available		
12.4.	Mobi	lity in :	soil										
	Known or predicted distribution in environmental compartments:												
	No information available												
	Surfa	ce ten	sion:										
	Va	alue	°C		Со	ncentrati	ion		Ν	Nethod		No	ote
	No inforr availa	mation able	No inforn available	ation	into	ormation ilable		No inf	orma	tion avail	able	-	
			/										
	Adsol	•	/ desorption										
Transpo	ort	-	D coefficient nry's constant		log Kow			Evaporation rate		rate	Method	٢	lote
Soil-wa	iter	No availat	informatio		No information available		No information available			No informatior available	ı -		
Water-a	air	No availat	informatio		No information available			o inform ailable	ation		No informatior available	ı -	
Soil-air	-	No availat			No information available			No information available			No information available	n -	
	1						1			1		1	
12.5.	Resul	ts of P	BT and vPvB a	sessn	nent								
	accor	ding t	nce/mixture do o REACH Articl (EU) 2018/605	e 57(f	) or Co	ommissio	on De	elegated					
12.6.	Endo	crine c	lisrupting prop	erties									
			nce/mixture do			ain comp	one	nts cons	idere	d to have	e endocrine	disrupting	properties
	accor	ding t	o REACH Articl (EU) 2018/605	e 57(f	) or Co	ommissio	on De	elegated					
			. , ,,		-		5						
12.7.	Other	r adve	rse effects										
	No in	Iforma	tion available										



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Trading name:		EAGENT		
Product code:	ABR-OT-X**	Date of compilation:	21 Dec 2022	Version: 5

	N 13. Disposal considerat						
13.1.	Waste treatment methods						
1011	Droduct (Dockoping disp						
13.1.1.							
	Protection.	ne legal person authorized by the Ministry of Environmental and Nature					
13.1.2.	Waste codes/waste designations according to Law:						
	No information available						
13.1.3.	Waste treatment – releva	ant information:					
	No information available						
13.1.4.	Sewage disposal – releva	ant information:					
13.1.4.	Waste must not be disposed of into the sewage system.						
	waste mast not be disp						
13.1.5.	Other disposal recomme	endations:					
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Do not dispose of in places where					
13.1.6.	Relevant Community pro	ovisions:					
	-						
SECTIO	N 14. Transport informati	on					
	Transporting/shipment by	road (ADR)					
UN num	ber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environ	mentally hazardous:	-					
Special J	precautions for user:	-					
	Transporting/shipment by	rail (RID)					
UN num	ber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					



Trading name:			<b>ANILINE BLUE</b>	REAGENT	
Product code:	ABR-OT-X**		Date of compilation:	21 Dec 2022	Version: 5
					i
Transport hazard cla	ass(es):	-			
Packing group:		-			
Environmentally haz	zardous:	-			
Special precautions	for user:	-			
Inland wate	erway transport (Al	DN)			
UN number:		No	ot subject to transport regu	ulations.	
UN proper shipping	ı name:	-			
Transport hazard cla	ass(es):	-			
Packing group:		-			
Environmentally haz	zardous:	-			
Special precautions	for user:	-			
Transportir	ng/shipment by sea	a (IMDG	(ز		
UN number:		No	ot subject to transport regu	ulations.	
UN proper shipping	j name:	-			
Transport hazard cla	ass(es):	-			
Packing group:		-			
Environmentally haz	zardous:	-			
Special precautions	for user:	-			·····
Transportir	ng/shipment by air	(ICAO-	TI/IATA-DGR)		
UN number:		No	ot subject to transport regu	ulations.	
UN proper shipping	j name:	-			
Transport hazard cla	ass(es):	-			
Packing group:		-			
Environmentally haz	zardous:	-			
Special precautions	for user	-			

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



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Tradin	g name:		ANILINE BLUE F	REAGENT			
Produc	ct code:	ABR-OT-X**	Date of compilation:	21 Dec 2022	Version: 5		
	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 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				
	Informatio guideline)	-	/13/EC about limitation of emission	s of volatile organic	compounds (VOC-		
	National l	egislation:	Chemicals Act, Regulation on clas dangerous substances, Ordinance and on biological limit values, Reg classification of waste with a wast Ordinance on writing Material saf Substances Act	on occupational ex gulation on categori e catalog and list of	posure limit values es, types and hazardous waste,		
15.2.	Chemical	safety assessment					
	None						

SECTIO	SECTION 16. Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			



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Trading name:	ANILINE BLUE REAGENT				
Product code:	ABR-OT-X**	Date of compilation:	21 Dec 2022	Version: 5	

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

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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Trading name:	BIEB	RICH SCARLET-ACID F	UCHSIN REAGENT	-
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

SECTI	ON 1: Identification of t	he substa:	nce/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	BIEBRICH	H SCARLET-ACI	D FUCHSIN REAGENT	
	Chemical name:	-			
	Catalogue number:	BSAF-OT	-X**		
1.2.	Relevant identified use	es of the su	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 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 p	erson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection an	d Rescue [	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regula	tion (EC) No 12	72/2008 (CLP)			
	Hazard class and category	code:	Hazard statements*:			
	Not identified as hazardous subst	ance.	-			
2.1.2.	Additional information					
	-	-				
*For ful	l text of Hazard- and EU Hazard-sta	tements: see Se	ection 16			
2.2.	Label elements					
	Product identification:	<b>BIEBRICH SCA</b>	RLET-ACID FUCHSIN REAGENT			
	Identification number: -					
	Authorization no.:	-				
	Hazard pictograms:	-				



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

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

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

SECTI	CTION 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 eff	fects, both acute and delayed		
	Following inhalation:	No i	information available		
	Following skin contact:	No i	information available		
	Following eye contact:	No i	information available		
	Following ingestion:	No i	No information available		
4.3.	Indication of any immedia	te medi	e medical attention and special treatment needed		
	-				

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



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

	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	ires		
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	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 cor	tainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	-		
6.4.	Reference to other sections			
	See Section 7 for information See Section 8 for information See Section 13 for informatio	about personal protective equipment.		



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

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

SECTION 8. Ex	SECTION 8. Exposure controls/personal protection						
8.1. Contr	ol parameters						
Substance		CAS No	CAS No Occupational exposure limit values/short term values		Biological limit values		
			ppm	mg/m <sup>3</sup>			
-		-	-	-	No information available		
Substance name:	-						



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Trading na	ame:	BIEBRICH				CARLET-A		FUCHSIN REAGE	NT	
Product co	ode:	BSAF-O	T-X**		Date o	f compila	tion:	21 Dec 2022	Version: 4	
EC No:	-		CAS No:	-						
DNEL										
					Ind	lustrial				
Route of		A	cute		Acute	e		Chronic	Chronic	
exposure:		effe	ct local		effect sys	temic		effect local	effect systemic	
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-			-		-	
Critical phy	sical par	ameters: s	olubility, fla	mma	bility, cor	rosivity:		-		
					Сог	nsumer				
Route of		A	cute		Acute	e		Chronic	Chronic	
exposure:		effe	ct local		effect sys	temic		effect local	effect systemic	
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-			-		-	
PNEC										
Environmer	ntal prot	ection tar	get			PNEC				
Fresh water	~					No information available				
Freshwater	sedimer	nts				No information available				
Marine wat	er					No inforr	nation	n available		
Marine sed	iments					No inforr	nation	n available		
Food chain						No inforr	nation	n available		
Microorgar	nisms in :	sewage tre	eatment			No inforr	nation	n available		
Soil (agricu	ltural)					No information available				
Air					No information available					
8.2.	Exposu	ire control	s							
8.2.1.	Appro	oriate eng	ineering co	ntrols						
	Substa				Lico tho					
		ullasures to prevent exposure				Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structu exposu		res to preve	ent	No info	rmation av	ailable	9		
	Organi		neasures to		-	Drganization of work in order to reduce other worker's influence Juring work process.				
	-			nt	_	-		e ventilation in ord	er to keen	
		-					•	ir below permitted	-	



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
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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						
	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 in	formation available				
8.2.3.	Environmental exposure controls						
	Substance/mixture related measures to prevent exposure:		See Section 6				
	Structural measures to prevent exposure:		Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to pr exposure:	event	See Section 6				

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



Other information

9.2.

\_

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

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Trading name:BIEBProduct code:BSAF-OT-X**		BRICH SCARLET-ACID FUCHSIN REAGENT			
		Date of compilation:	21 Dec 2022	Version: 4	
Decompo	osition temperature:	No information availab	ole No in	formation available	
pH:		No information availab	ole No in	<ul> <li>No information available</li> </ul>	
Kinemati	c viscosity:	No information availab	ole No in		
Solubility	:	No information availab	ole No in		
Partition (log value	coefficient n-octanol/water e):	No information availab	ole No in		
Vapour p	ressure:	No information availab	ole No in		
Density a	nd/or relative density:	No information availab	ole No in	formation available	
Relative v	/apour density:	No information availab	ole No in	formation available	
Particle c	haracteristics:	No information availab	ole No in	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.			

SECTION 11. Toxicological information											
11.1. Information on toxicological effects											
Acute toxicity:											
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results						
Oral exposure:	No information available	-	LD <sub>50</sub>	-	-						
Dermal exposure:	No information available	-	LD <sub>50</sub>	-	-						
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-	-						
Specific tar	get organ toxicity – sir	ngle exposure (S	STOT SE):								
	Specific e	ffects	Target orga	n	Note						



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Trading name:						Page 8 of 16
		BIEBRIC	H SCARLET-A	CID FUCHS	IN REAGEN	JŢ
Product code:	BSAF-OT-X**	Da	te of compilat	tion: 21 De	ec 2022	Version: 4
Oral exposure:	No informa	ation available	No infor	mation availal	h	_
Dermal exposure		ation available		mation availal		_
Inhalation exposure		ation available		mation availal		_
Respirat	ory irritation:	Ν	o information a	vailable		
Irritation	and corrosion			1	<b>.</b>	<b>.</b>
	Exposure tim	le Speci		aluation	Method	Note
Skin irritation:	-	-	-		-	-
Eye irritation:	-	-	-		-	-
Sensitiza						
Dermal exposure	: No information	available				
Inhalation exposure:	No information	available				
	i					
Sympto	ms related to the pl	nysical, chemica	al and toxicoloc	gical character	istics	
Oral exposure:	No information	-		,		
Dermal exposure						
Inhalation exposure:	No information	available				
Eye exposure:	No information	available				
Repeate	d dose toxicity (sub	acute, subchro	onic, chronic)			
•	Dose	Exposure time	Species	Method	Evaluation	n Note
	No information	No information	No information	No informatio	No inform available	nation _
Subacute oral	available	available	available	n available	avaliable	
Subacute oral Subacute dermal	available No information available	available No information available	available No information available	n available No informatio n available	No inform available	ation _
Subacute	No information	No information	No information	No informatio	No inform	-



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

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	organ toxicity – repeate	d exposure (STOT RE):	
	Specific effects	Target organ	Note
Subacute oral	No information availab	le No information available	-
Subacute dermal	No information availab	le No information available	-
Subacute inhalation	No information availab	le No information available	-
Subchronic oral	No information availab	le No information available	-
Subchronic dermal	No information availab	le No information available	-
Subchronic inhalation	No information availab	le No information available	-
Chronic oral	No information availab	le No information available	-
Chronic dermal	No information availab	le No information available	-
Chronic inhalation	No information availab	le No information available	-
CMR effects (c	arcinogenicity, mutagen	city, reproductive toxicity)	
Carcinogenicit	y: No i	formation available	
Mutagenicity i	<i>n-vitro</i> : No i	formation available	
Genotoxicity:	No i	formation available	
Mutagenicity i		formation available	

Genotoxicity:	No information available
Mutagenicity in-vivo:	No information available
Germ cell mutagenicity:	No information available
Reproductive toxicity:	No information available
Summary of evaluation of th	e CMR properties: -



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Trading name:	BIEB	BIEBRICH SCARLET-ACID FUCHSIN REAGENT									
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 informations:
	-

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



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

Abio	tic deg	radation								
	De	egradation ha	lf-lives		Method			Evaluatior	า	Note
Marine water	No i	nformation av	ailable	No infc	No information availabl			nation ava	ilable	-
Fresh water	No i	nformation av	vailable	No info	ormation availab	ole	No inform	nation ava	ilable	-
Air	No i	nformation av	vailable	No info	ormation availab	ole	No inform	nation ava	ilable	-
Soil	No i	nformation av	ailable	No info	ormation availat	ole	No inform	nation ava	ilable	-
1	egrada			***						
% Degradation		Time (day			lethod		Evaluatio			lote
No informatio available		lo infor vailable	mation	No inforr available	nation		o informati ailable		lo informa Ivailable	ation
12.3. Bioa	ccumul	lative potentia	al							
		efficient: n-o		vater (log K	low):					
Value	Con	centration	pН	°C	Method		Evalu	ation		Note
-	No availat	information ble	-	- No information available			No information available		-	
Bioc	oncent	ration factor (	BCF)							
Value		Specie		N	lethod		Evaluat	ion		Note
No informatic available			mation	No information N			No information available		No information available	
Chro	nic ecc	otoxicity		1					3	
Val		Do	se	Exposure time	Species		Method	Evalu	uation	Note
Chronic toxici	ty on f	ïsh LC₅₀	ir	lo nformation vailable	No information available		o formation ailable	No infor available		-
Chronic toxici	ty on	EC <sub>50</sub>	N	10	No	No	D	No infor	mation	-



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Tradin	ing name: BIEBRICH SCARLET-ACID FUCHSIN REAGENT												
Produc	ct cod	e:	BSAF	-OT-X**		Date	e of co	ompilati	on:	21 Dec	2022	Version:	4
crustac	ustacea ( <i>Daphnia</i> ) informatio available							mation able		rmation lable	available		
12.4.	Mobility in soil												
		-		ed distributi	on ir	n environm	nental	compart	ment	s:			
	No i	nforma	ation a	vailable				•					
	Surfa	ace ten	ision:										
	ν	/alue		°C		Concentr	ation		1	Method		No	te
	No information available			on	No informatio available	on	No inf	orma	tion avai	lable -	-		
	Adsorption / desorption												
Transpo	ort			fficient constant		log Kow		Evaporation rate Met			Method	N	ote
Soil-wa	ıter	No availa		nformation				No information available		1	No information available	-	
Water-a	air	No availa		nformation	-			No information available		ן	No information available	-	
Soil-air	,	No availa		nformation		No information No infor available available		/ailable		No information available	-		
	i						1					i	
12.5.	Resu	Its of I	PBT an	d vPvB asses	sme	nt							
	acco	rding t	to REA		7(f) c	or Commis	sion D	elegated			e endocrine o U) 2017/210		
12.6.	Ende	ocrino	dicrum	ting properti	6								
12.0.				••••		ontain cor	npone	ents cons	idere	d to have	e endocrine d	disrupting r	properties
	acco	rding t	to REA		7(f) c	or Commis	sion D	elegated			U) 2017/210		
12.7.	Othe	er adve	rse eff	ects									
	No i	nforma	ation a	vailable									



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

SECTIO	N 13. Disposal considerat	ions					
13.1.	Waste treatment metho	ds					
13.1.1.	Droduct (Dockooring dicp						
15.1.1.		Product/Packaging disposal:					
	Protection.	ne legal person authorized by the Ministry of Environmental and Nature					
13.1.2.	Waste codes/waste desi	gnations according to Law:					
	No information available	2					
13.1.3.	Waste treatment – relev	ant information:					
	No information available	2					
13.1.4.	Sewage disposal – relev	ant information:					
	Waste must not be disp	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 ry in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where					
13.1.6.	Relevant Community pro	ovisions:					
	-						
SECTIO	N 14. Transport informat	ion					
	Transporting/shipment by	road (ADR)					
UN num	nber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					
Transport hazard class(es):		-					
Packing group:		-					
Environ	mentally hazardous:	-					
Special	precautions for user:	-					
	Transporting/shipment by	rail (RID)					
UN num	ıber:	Not subject to transport regulations.					
UN prop	per shipping name:	-					



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Trading name:		BIEBRICH SCARLET-ACID FUCHSIN REAGENT					
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Transport hazard	class(es):	-					
Packing group:		-					
Environmentally h	azardous:	-					
Special precautior		-					
Inland wa	aterway transport (AD	DN)					
UN number:		No	t subject to transport regu	lations.			
UN proper shippir	ng name:	-					
Transport hazard	class(es):	-					
Packing group:		-					
Environmentally h	azardous:	-					
Special precaution	ns for user:	-					
Transpor	ting/shipment by sea	(IMDG	)				
UN number:		Not subject to transport regulations.					
UN proper shippir	ng name:	-					
Transport hazard	class(es):	-					
Packing group:		-					
Environmentally h	azardous:	-					
Special precaution	ns for user:	-					
Transpor	ting/shipment by air	(ICAO-	TI/IATA-DGR)				
UN number:		No	t subject to transport regu	llations.			
UN proper shippir	ng name:	-					
Transport hazard	class(es):	-					
Packing group:		-					
Environmentally h	azardous:	-					
Special precaution	ns for user:	-					
Further information	on: -						

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



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							9	01 16
Trading	name:	•	BIEB	RICH SCARLET-ACI	D F	UCHSIN REAGEN	T	
Product	code:	BSAF-OT-X**		Date of compilation	า:	21 Dec 2022	Version:	4
	Other EU 1	regulations:	18 Decer Restriction and Con 76/769/E 2000/21/ Directive on the lin organic so amending Council E of worker Regulation December mixtures, amending REACH R	on (EC) No 1907/2006 of nber 2006 concerning on of Chemicals (REACH g Directive 1999/45/EC a mmission Regulation (E EC and Commission Di EC; 2004/42/CE of the Europ mitation of emissions o olvents in certain paints a g Directive 1999/13/EC; Directive 98/24/EC of 7 Ap rs from the risks related to on (EC) No 1272/2008 of er 2008 on classification amending and repealing g Regulation (EC) No 190 estrictions on the manufa	the H), e Ind r C) recti ean f vol and v oril 1 f vol oril 1 f vol oril 1 f vol n f vol n f vol n f vol f vol f vol f recti n f vol che f vol che f vol che che recti	Registration, Evaluat establishing a Europe repealing Council Reg No 1488/94 as wel ves 91/155/EEC, 93/ Parliament and of the latile organic compon- varnishes and vehicle 998 on the protection emical agents at work, European Parliament abelling and packag Directives 67/548/EEC 06; ring, placing on the m	tion, Authoris ean Chemica julation (EEC) I as Counci 67/EEC, 93/1 Council of 21 unds due to refinishing pr of the health ; and of the Co ing of subst C and 1999/4	sation and Ils Agency, No 793/93 I Directive 05/EC and April 2004 the use of oducts and and safety puncil of 16 cances and 45/EC, and
	Informatic guideline)	-	/13/EC ab	out limitation of emiss	ions	of volatile organic	compounds	(VOC-
	National le	egislation:	dangerc and on l classifica	Is Act, Regulation on cous substances, Ordinar piological limit values, l ation of waste with a wa ce on writing Material s ces Act	nce ( Regi aste	on occupational exp ulation on categorie catalog and list of l	oosure limit es, types and hazardous w	values vaste,
15.2.	Chemical s	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



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Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
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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: -	-
16.6.	Training advice:	-
		** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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Trading name:		BOUIN'S	<b>SOLUTION</b>		
Product code:	BOU-OT-X**	Revision date:	22 Dec 2022	Version:	7

1.1.	Product identifier				
	Trading name:	BOUIN'S SC	LUTION		
	Chemical name:	-			
	Catalogue number:	BOU-OT-X*	*		
1.2.	Relevant identified uses	of the subst	ance or mix	xture and uses advised against	
	Uses:		Aqueous solution of picric acid, formaldehyde and acetic acid for tissue fixation.		
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advised against:		<ul> <li>The product is intended for use only as an <i>in vitro</i> diagnostic</li> <li>medical device, registered at the Agency for Medicinal Products and</li> <li>Medical Devices and there is no reason to use it for other purposes.</li> </ul>		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:	Bio	BioGnost Ltd.		
	Address:	M	Medjugorska 59, Zagreb		
	Telephone number:	+3	+385 1 2409997		
	Fax no.:	+3	+385 1 2404039		
	e-mail of competent per	son: <u>m</u>	msds@biognost.hr		
	National contact:	-	-		
1.4.	Emergency telephone nu	umber			
	National Protection and	Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIC	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*:				
	Acute Tox. 4	H302				
	Acute Tox. 4	H312				
	Skin Irr. 2	H315				
	Skin. Sens. 1	H317				
	Eye Irr. 2	H319				
	Acute Tox. 4	H332				
	STOT SE 3	H335				
	Muta. 2	H341				
	Carc. 1B	H350				



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Trading name: Product code: BOU-OT-X**			BOUIN'S SOLUTION	
		BOU-OT-X**	Revision date: 22 Dec 2022 Versic	on: 7
	:			
2.1.2.		al information		
		e Disrupting Prop		
		n endocrine disrupt		
	PBT or a		sessment: According to the results of its assessment,	this substance is not a
*For fu			d-statements: see Section 16	
2.2.	Label ele	ments		
	Product i	dentification:	BOUIN'S SOLUTION	
	Identifica	tion number:	-	
	Authoriza	ation no.:	-	
	Hazard p	ictograms:	GHS08 GHS07	
	Signal wo	ord:	Danger	
	Hazard st	tatements:	<ul> <li>H302 + H312 + H332 Harmful if swallowed, in co inhaled.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> <li>H341 Suspected of causing genetic defects.</li> <li>H350 May cause cancer.</li> </ul>	ntact with skin or if
	Precautic	onary statements:	<ul> <li>P280 Wear protective gloves/protective clothing/egprotection.</li> <li>P301+P330+P331 IF SWALLOWED: rinse mouth. DC</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water</li> <li>P304+P340 IF INHALED: Remove person to fresh a comfortable for breathing.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with minutes. Remove contact lenses, if present and easy rinsing.</li> <li>P308 + P313 IF exposed or concerned: Get medical</li> </ul>	D NOT induce vomiting r and soap. air and keep n water for several y to do. Continue
	Further ir	nformation:	-	
2.3.	Other ha	zards		

**SECTION 3. Composition/information on ingredients** 



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Trading name:	BOUIN'S SOLUTION				
Product code:	BOU-OT-X**	Revision date:	22 Dec 2022	Version:	7

CAS/ EC/ Index no.	REACH Registration No	Mass %	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
50-00-0/ 200-001-8/ 605-001-00-5	01-2119488953-20- XXXX	7 -10 %	formaldehyde, 37%	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin. Corr. 1B; H314 Skin. Sens. 1; H317 Acute Tox. 3; H331 Muta. 2; H341 Carc. 1B; H350
64-19-7/ 200-580-7/ 607-002-00-6	-	4- 5 %	acetic acid, glacial	Flam. Liq. 3; H226 Skin Corr. 1A; H314
88-89-1/ 201-865-9/ 609-009-00-X	-	< 1 %	picric acid	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331

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:	Remove person to fresh air. If breathing stops, immediately apply artificial respiration. If breathing difficulties occur, use emergency breathing apparatus. If the symptoms persist, immediately consult a physician.					
	Following skin contact:	Take off immediately all contaminated clothing. Immediately wash with plenty of water and soap 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 10 minutes. If the symptoms remain, immediately call in ophthalmologist.					
	Following ingestion:	Rinse the oral cavity, drink at most 1-2 glasses of water. Do not induce vomiting. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.					
	Self-protection of the first aider:	-					
4.2.	Most important symptoms and e	ffects, both acute and delayed					
	Following inhalation: ser	tation of the mucous membrane of the nose/throat may occur (burning nsation, urge to sneeze, and runny nose). High concentration may cause ficult breathing, coughing fits, chest tightness, headache, vertigo and powsiness.					



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Trading name:	BOUIN'S SOLUTION				
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Following skin contact: Irritation, redness with stinging and pain, skin cracking, rash, swellir			ı, swelling,		

	Following skin contact.	burns, blisters and delayed onset of inflammatory processes may occur.		
	Following eye contact:	Depending on concentration and exposure time, mucosa stinging, lacrimation, redness and pain may occur, as well as bleeding, delayed onset of inflammatory processes and permanent eyesight damage.		
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting (possibly of bloody content).		
4.3.	Indication of any immediate medical attention and special treatment needed			
	-			

SECTIO	CTION 5 Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam				
	Unsuitable extinguishing media:	No information available				
5.2.	Special hazards arising from the substance or mixture					
	Hazardous combustion products:	Possible liberation of toxic carbon monoxide and formaldehyde gases due to thermal decomposition (increased temperature). Explosive mixtures of formaldehyde vapors and air, and methanol and air also present danger.				
5.3.	Advice for firefighters					
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray, in order to prevent explosion.					
5.4.	Additional information					
	Remove sources of heat and ignition	n. Do not contaminate the environment with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective	e equipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use 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. Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).					



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6.2.	Environmental precaut	Environmental precautions:				
	•	ewage, drainage system and waterways. In case of large spillage contact National Directorate (NPRD) on 112.				
6.3.	Methods and material	for containment and cleaning up				
6.3.1.	For creating barriers, covering and sealing:	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 involved materials with water.					
6.3.3.	Other information:	Other information: Do not use tools that may cause sparks.				
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.					

SECTIO	TION 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	fr	se in well ventilated storage rooms. Keep away om sources of heat and ignition. Carry out leasures for preventing static electricity.			
	Measures to prevent aerosol and dust generati	on: Se	ecure proper ventilation.			
	Measures to protect the environment:		revent spilling into the sewage system and aterways.			
	Other measures:	-				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. T	norough	ly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any inco	npatibili	ties			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a we ventilated storage rooms at temperatures ranging from 15 to 25 °C.				
	Packaging materials:	Manuf	acturer's original packaging.			
	Requirements for storage rooms and vessels:	•	way from food and drink. Keep the containers closed.			



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

SECTION 8. E	xposur	e contro	ols/personal	protec	tion						
8.1. Cont	rol para	parameters									
Subs		CAS No		Occupational values/short	•	Bic	ological limit values				
					ppm	mg/m <sup>3</sup>					
Formaldehyde	9		50-00	-0	0.3/0.6	0.37/0.74		-			
Acetic acid, gl	acial		64-19	-7	10/20	25/50		-			
-											
Substance name:	-										
EC No:	-		CAS No:	-							
DNEL											
					Industrial						
Route of exp	0.000	Acute			Acute	Chroni	с	Chronic			
Route of exp	osure.	effe	effect local eff		ect systemic	effect local		effect systemic			
Oral		-		-		-		-			
Inhalation		0.75 m (forma	g/m³ ldehyde)	-		0.375 mg/m <sup>3</sup> (formaldehyde	e)	9 mg/m <sup>3</sup> (formaldehyde)			
Dermal		-		-		0.037 mg/cm <sup>2</sup> (formaldehyde)		240 mg/kg (formaldehyde)			
Critical physic	al paran	neters: s	olubility, flar	nmabilit	y, corrosivity:	-					
					Consumer						
Pouto of our		ŀ	Acute		Acute	Chroni	с	Chronic			
Route of exp	osure:	effe	ect local	effe	ect systemic	effect lo	cal	effect systemic			
Oral		-		-		-		4.1 mg/kg (formaldehyde)			



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Product co	ode:	BOU-OT-X**	Revisi	on date:	22 Dec 2022	Version: 7		7	
Inhalation		-		3		3.2 mg/m <sup>3</sup> (formaldeh	yde)		
Dermal		-	-		0.012 mg/cm <sup>2</sup> (formaldehyde)		120 mg/kg (formaldeh		
PNEC									
Environmer	ntal prote	ction target		PNEC					
Fresh water				0.44 mg/	l (formaldehyde)				
Freshwater	sediment	S		2.3 mg/k	(formaldehyde)				
Marine wate	er			0.44 mg/	l (formaldehyde)				
Marine sedi	iments			2.3 mg/k	g (formaldehyde)				
Food chain				No information available					
Microorgan	isms in se	ewage treatment		0.19 mg/l (formaldehyde)					
Soil (agricul	ltural)			0.2 mg/k	(formaldehyde)				
Air				No infor	mation available				
8.2.	Exposur	re controls							
8.2.1.	Approp	riate engineering co	ntrols						
		nce/mixture related n exposure during ide		protecti	Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structur	ral measures to preve	ent exposure:	No information available					
	Organis exposur	ational measures to re:	prevent	Organization of work in order to reduce other worker's influence during work process.				r worker's	
	Technic	al measures to preve	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				•		
8.2.2.	Persona	I protection equipme	ent						
8.2.2.1.	Eye and	face protection:	levels	of concentr	t stick to face (EN ation in air; protec of higher levels c	ctive ga	s mask that	covers the	
8.2.2.2.	Skin pro	otection							



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Trading	name:	BOUIN'S SOLUTION							
Product	Product code: BOU-OT-X**		Revision date:	22 Dec 2022	Version:	7			
Hand protection:			and standard EN Full contact: Glove ma Glove thi Time unti Splash contact: Gloves m Glove thi	must be accordir 374. hterial: nitrile rubb ckness: 0.40 mm il perforation: > 4 haterial: polychloro ckness: 0.65 mm il perforation: >24	er 80 min oprene	re 89/686/EEC			
	Other	skin protection:	Wear protective suit with long sleeves (EN 340) that protects from chemicals and shoes that cover the entire foot.						
8.2.2.3.	Respi	ratory protection:	<ul><li>Full face mask (EN 136) or half mask (EN 140) equipped with a recommended "ABEK" (EN 14387) filter used when concentration levels exceed GVI.</li><li>No information available</li></ul>						
8.2.2.4.	Therm	nal hazards:							
8.2.3.	Envirc	onmental exposure controls							
		ance/mixture related ures to prevent exposure:	See Section 6						
Structural measures to prevent exposure:		Use modern equipment.							
		nisational measures to nt exposure:	Adapt the work process to the required working conditions of th workplace.						
	Techn expos	ical measures to prevent ure:	See Section 6						

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



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	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	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 (room temperature).					
10.3.	Possibility of hazardous reactions:	<ul> <li>Explosion hazard when in contact with: nitric acid, hydrogen peroxide, nitromethane, acids, phenol, nitrogen dioxide</li> <li>Exothermic reactions occur with the following substances: bases, nitrides, polymerization initiators, sodium hydroxide, potassium permanganate, furfuryl alcohol, highly oxidizing agents, perchloric acid with aniline, hydrochloric acid, magnesium carbonate.</li> </ul>					
10.4.	Conditions to avoid:	Sources of heat, sparks, ignition, and low temperature.					
10.5.	Incompatible materials:	Highly oxidizing agents, acids, bases and different metals, steel manufactured by melting, copper.					
10.6.	Hazardous decomposition products:	Carbon oxides.					

SECTION 11. To	SECTION 11. Toxicological information									
11.1. Informa	.1. Information on toxicological effects									
Acute to	Acute toxicity:									
Route of exposure:	Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure time	Results					



Page 10 of 19 Trading name: **BOUIN'S SOLUTION** Product code: BOU-OT-X\*\* **Revision date:** 22 Dec 2022 Version: 7 No information No information >200 mg/kg Oral exposure: LD<sub>50</sub> rat (formaldehyde) available available No information No information >270 mg/kg Dermal: rabbit LD<sub>50</sub> (formaldehyde) available available Inhalation No information 4 h  $LC_{50}$ 0.58 mg/l (formaldehyde) rat available exposure: Specific target organ toxicity - single exposure (STOT SE): Specific effects Target organ Note Oral exposure: No information available \_ \_ No information available Dermal exposure: \_ \_ Inhalation No information available \_ \_ exposure: Aspiration hazard: possible respiratory system irritation. Irritation and corrosion S р е Exposure time Evaluation Method С Note i е s Causes skin Skin corrosion/irritation No information available -\_ irritation. Causes serious Serious irritation to eyes: No information available -\_ eye irritation. Sensitization Dermal exposure: May cause allergic skin reaction. Inhalation Allergic persons may display irritation. exposure: Symptoms related to the physical, chemical and toxicological characteristics If swallowed it can cause severe burns to mouth and throat, and danger of esophagus and Oral exposure: stomach perforation. Depending on concentration and exposure time, redness accompanied by sensation of Dermal exposure: stinging and pain may occur, as well as burns and blistering.



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Trading name:		BOUIN'S SOLUTION					
Product code:	BOU-OT-X**	Revision date:		22 Dec 2022	Version:	7	
Inhalation exposu		•	e time, it may lea ause formation of		-		
Eye exposure:	Causes serious hazard.	eye damage	e. Fumes may c	ause lacrimal irrit	ation (tearing), k	blindness	
Repeate	d dose toxicity (suba	cute, subchro	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No information available	No informati on available	No information available	No information available	No information available	No information available	
Subacute dermal	No information available	No informati on available	No information available	No information available	No information available	No information available	
Subacute inhalation	No information available	No informati on available	No information available	No information available	No information available	No information available	
Subchronic oral	No information available	No informati on available	No information available	No information available	No information available	No information available	
Subchronic dermal	No information available	No informati on available	No information available	No information available	No information available	No information available	
Subchronic inhalation	No information available	No informati on available	No information available	No information available	No information available	No information available	
Chronic oral	No information available	No informati on available	No information available	No information available	No information available	No information available	
Chronic dermal	No information available	No informati on available	No information available	No information available	No information available	No information available	



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Chronic inhalation	No information available	No informati on available	No information available	No information available	No information available	No information available		
Specifi	c target organ toxicity -	- reneated e	xposure (STOT	RE).				
Speem	Specific effe	•		Target organ		Note		
Subacute oral	No information availa		No informa	tion available		o information ailable		
Subacute dermal	No information availa	ıble	No informa	tion available		o information ailable		
Subacute inhalation	No information availa	ıble	No informa	tion available		o information ailable		
Subchronic oral	No information availa	ıble	No informa	tion available		o information ailable		
Subchronic dermal	No information availa	No informa	tion available		o information ailable			
Subchronic inhalation		ble	No informa	No information available		No information available		
Chronic oral	No information availa	ble	No informa	No information available		o information ailable		
Chronic dermal	No information availa	ble	hle No information available		o information ailable			
Chronic inhalation	No information availa	ble	No informa	No information available		o information ailable		
CMR e	ffects (carcinogenicity; )	mutagenicity	/: reproductive :					
	ogenicity:	inatagement	•		enic potential fo	or humans.		
	enicity <i>in vitro</i> :			Presumed to have carcinogenic potential for humans No information available.				
Genoto	oxicity:		No inform	ation available.				
Mutag	enicity <i>in vivo</i> :		No inform	ation available.				
Germ o	ell mutagenicity:		Suspected	of causing gene	tic defects.			
Reproc	luctive toxicity:		No inform	ation available.				
Summa	ary of evaluation of ties:	of the CN	/IR No inform	ation available.				

11.2.1. Endocrine disrupting properties:



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	n endocrine disruptin t human health.	g properties							

 11.2.2.
 Other informations:

12.1. Toxicity						
Acute (short-tern toxicity	ר) Dose	Exposure time	e Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Pimephales promelas	_	24.1 – 41 mg/l (formaldehyde)	-
Crustacea:	EC <sub>50</sub>	48 hours	water flea (Daphnia magna)	-	2 mg/l (formaldehyde)	-
Algae/aquatic pla	ants IC <sub>50</sub>	72 hours	algae	-	2.5 mg/l (formaldehyde)	-
Other organisms	-	-	-	-	-	-
Chronic (long-ter toxicity	rm) Dose	Exposure time	e Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	-	-	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	-	-	No information available	-
Algae/aquatic pla	ants IC <sub>50</sub>	72 hours	-	-	No information available	-
Other organisms	-	-	-	-	No information available	-
12.2. Persister	nce and degrada	ability				
Abiotic o	degradation					
	Degradation ha	alf-lives	Method		Evaluation	Note
Marine water N	lo information a	vailable I	No information a	vailable	No information available	-

Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

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



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		ulative pote								
		oefficient: r	i-octanc	-	g Kow):				1	
Val		oncentration		H ℃		ethod		luation	No	ote
No inform availab	ation ava	informatior ailable	ח -	-	No inf availat	ormation ble	No info availabl	rmation e	-	
	Pioconcor	ntration fact	or (BCE)							
\ \	/alue				Metho	d	Evalua	ation	No	to
	ormation	No inform available		-	informatio	on l	No informa available		-	
	Chronic e	cotoxicity								
	Value		Dose	Exposure time	e Spe	ecies	Method	Evaluati	on N	Note
Chroni	c toxicity on	fish LC	50	No informati n available	No inform availat	ation i ole d	No informati on available	No informati available	_	
	Chronic toxicity on crustacea (Daphnia)		50	No informati n available	No inform availat	ation i ole d	No informati on available	No informati available	_	
12.4.	Mobility i	n soil								
	Known or	predicted d	istributi	on in envir	onmental	compartm	ients:			
	Surface te	nsion:								
	Value		°C	Conce	entration		Method		Note	
	Value			Nia infa	rmation	No infor	rmation			



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	Adsorption / desorption				
Transpo	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wa	ter No information available	No information available	No information available	No information available	-
Water-a	air No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB ass	essment			
	No information available				
12.6.	Endocrine disrupting prope	rties			
	The substance/mixture does according to REACH Article Regulation (EU) 2018/605 a	57(f) or Commission	n Delegated regulat		
12.7.	Other adverse effects				
	No information available				
SECTIO	No information available N 13. Disposal consideratic	ons			
13.1.	N 13. Disposal consideratio	3			
13.1.	N 13. Disposal consideration Waste treatment methods	sal:	rized by the Ministr	y of Environmental a	nd Nature
13.1.	N 13. Disposal consideration Waste treatment methods Product/Packaging dispose Submit for disposal to the	sal: e legal person autho		y of Environmental a	nd Nature
13.1.	N 13. Disposal consideration Waste treatment methods Product/Packaging dispose Submit for disposal to the Protection.	sal: e legal person autho nations according to	o Law:		
13.1. 13.1.1. 13.1.2.	N 13. Disposal consideration Waste treatment methods Product/Packaging dispose Submit for disposal to the Protection. Waste codes/waste design 15 01 10*: packaging that	sal: e legal person autho nations according to contains residual h	o Law:		
13.1. 13.1.1. 13.1.2.	N 13. Disposal consideration Waste treatment methods Product/Packaging dispose Submit for disposal to the Protection. Waste codes/waste design 15 01 10*: packaging that substances	sal: e legal person autho nations according to contains residual h	o Law:		
<b>SECTIO</b> 13.1. 13.1.1. 13.1.2. 13.1.3. 13.1.3.	N 13. Disposal consideration Waste treatment methods Product/Packaging dispose Submit for disposal to the Protection. Waste codes/waste design 15 01 10*: packaging that substances Waste treatment – relevan	al: elegal person autho nations according to contains residual h nt information:	o Law:		



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13.1.5.	Other disposal recommen	adations:
13.1.3.	Do not dispose of the pro authorized by the ministry	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.
13.1.6.	Relevant Community prov	<i>v</i> isions:
	-	
SECTION	I 14. Transport informatio	n
	Transporting/shipment by r	oad (ADR)
UN numl	ber:	Not subject to marking regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing g	group:	-
Environm	nentally hazardous:	-
Special precautions for user:		-
	Transporting/shipment by r	ail (RID)
UN number:		Not subject to marking regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing g	group:	-
Environm	nentally hazardous:	-
Special p	recautions for user:	-
	Inland waterway transport (	ADN)
UN numl	ber:	Not subject to marking regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing g	group:	-
Environm	nentally hazardous:	-
Special p	recautions for user:	-
	Transporting/shipment by s	ea (IMDG)
UN numl	ber:	Not subject to marking regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing g	group:	-
Environm	nentally hazardous:	-



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	•				

Special precautions for user:		-			
Transport in bulk accordi of MARPOL 73/78 and the	5	-			
Transporting/shi	oment by air (IC	AO-TI/IATA-DGR)			
UN number:		3334			
UN proper shipping name:		Aviation regulated liquid, n.o.s. (formaldehyde)			
Transport hazard class(es):		9			
Packing group:		Ш			
Environmentally hazardous:		None			
Special precautions for user:		-			
Further information: Formaldehyde solutions, nonflammable, containing less than 25% of formaldehy not adhere to the ADR regulations.		-			

15.1.	Safety, health and environ	mental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or restr	ictions 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;
		<ul> <li>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;</li> <li>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;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>



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Trading name:	me: BOUIN'S SOLUTION						
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Nationa	al legislation:	dange and or classifi Ordina	cals Act, Regulatio rous substances, C n biological limit va cation of waste wi ance on writing Ma ances Act	Ordinance on occu alues, Regulation o th a waste catalog	pational exposution categories, ty and list of haza	re limit values pes and rdous waste,	
15.2. Chemic	al safety assessme	nt					
-							

SECTIO	SECTION 16 Other information					
16.1.	Indi	cation of changes:	-			
16.2.	Abb	previations and acronyms:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>			
16.3.	Key literature references an source of data:		-			
16.4.	16.4. Classification and procedure 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)			
Classifie	catior	according to CLP	Classification procedure			
-			-			
16.5.	Rele	evant H statements (numb	er and full text)			
		226	Flammable liquid and vapor.			
		301+311+331	Toxic if swallowed, in contact with skin or if inhaled.			
		302+312+332	Harmful if swallowed, in contact with skin or if inhaled.			
		314	Causes severe skin burns and eye damage.			
	H:	315	Causes skin irritation.			
	п.	317	May cause allergic skin reaction.			
		319	Causes serious eye irritation.			
		335	May cause respiratory irritation.			
		341	Suspected of causing genetic defects.			
		350	May cause cancer.			
16.6.	Trai	ning advice:	-			



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16.7.	Further int	formation:	"X" in the product code mat the product) We are not responsible for instructions for use or impro material safety data sheet.	consequences in	case of failure to	o comply with

ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trading name:	FERRI REAGENT, WEIGERT B				
Product code:	FR-OT-X**	Revision date:	21 Dec 2022	Version:	5

SECTI	ON 1 IDENTIFICATION	OF THE SUB	STANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	FERRI REAG	GENT, WEIG	ERT B	
	Chemical name:	-			
	Catalogue number:	FR-OT-X**			
1.2.	Relevant identified use	es of the subs	stance or mi	xture and uses advised against	
	Uses:		For use in	special staining kits.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advis	Ivised against: The product is intended for use only as an <i>in vitro</i> diagnost medical device, registered at the Agency for Medicinal Productal Devices and there is no reason to use it for other			
1.3.	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier: E		BioGnost Ltd.		
	Address:	N	Medjugorska 59, Zagreb		
	Telephone number:	+	+385 1 2409997		
	Fax no.:	+	+385 1 2404039		
	e-mail of competent p	erson: <u>n</u>	msds@biognost.hr		
	National contact:	-			
1.4.	Emergency telephone	number			
	National Protection an	d Rescue Dir	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			_	

SECTIO	SECTION 2 HAZARDS INFORMATION				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	tion (EC) No 127	72/2008 (CLP)		
	Hazard class and category	v code:		Hazard statements*:	
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	tements: see Se	ction 16		
2.2.	Classification according to EC Dire	ective Nr. 1272/2	2008 CLP)		
	Product identification:	FERRI REAGEN	T, WEIGERT B		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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

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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3.	Other hazards			
	Endocrine Disrupting Properties	5:		
	No known endocrine disrupting p	roperties		
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a PBT or a vPvB.			

SECTION 3 CC	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)		
7782-61-8/ 616-509-1/ -	-	< 0.5%	ferric nitrate nonahydrate	Skin Irrit. 2; H315 Eye Irrit. 2; H319		
7647-01-0/ 231-595-7/ 017-002-00-2	01-2119484862- 27-xxxx	< 1%	hydrochloric acid, 37%	Skin Corr. 1B; H314 STOT SE 3; H335		

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



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	Following inhalation:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.	
	Following skin contact:	Slight irritation. After short exposure, resorption effects are not likely. Long- term exposure may cause drying, cracking and tingling sensation of skin.	
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.	
	Following ingestion:	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.	
4.3.	Indication of any immediate medical attention and special treatment needed		
	-		

SECTION 5 FIREFIGHTING MEASURES				
5.1.	Extinguishing media			
	Suitable extinguishing media: Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media: water jet			
5.2.	Special hazards arising from the substance or mixture			
	Hazardous combustion products: No information available			
5.3.	Advice for firefightersUse 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 informationRemove sources of heat and ignition.Do not contaminate the environment with extinguishing media.			

SECTION 6 ACCIDENTAL RELEASE MEASURES			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
	Protective equipment:	Use 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.	<ul> <li>For emergency responders:</li> <li>Wear protective equipment (see Section 8).</li> </ul>		



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6.2.	Environmental precautions:	Environmental precautions:				
	Do not dispose of in sewage, Protection and Rescue Direct	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.				
6.3.	Methods and material for cor	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.				
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	-				
6.4.	Reference to other sections					
	-					

SECTIO	ON 7 HANDLING AN 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 generati	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. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any inco	npatibilities			
	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.			



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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:	-

SECTION 8 EXPOSU	RE CON	TROLS/PER		PROTECTION				
8.1. Control para	meters							
Substance					Occupational exposure limit values/short term values		logical limit values	
				ppm	mg/m <sup>3</sup>			
Hydrogen chloride		7647-0	01-0	5/10	8/15		-	
Substance								
EC No: - CAS No:			-					
DNEL								
				Industrial				
Noute of		Acute	Acute		Chron	-	Chronic	
exposure: eff		ect local	effect systemic		effect lo	ocal	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
Critical physical parar	neters: s	olubility, fla	mmabilit	y, corrosivity:	-			
				Consumer				
Route of exposure:		Acute ect local	Acute effect systemic		Chronic effect local		Chronic effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
PNEC								
Environmental protec	tion tar	get		PNEC				
Fresh water				No infor	No information available			
Freshwater sediments	5			No infor	mation availabl	e		
Marine water				No infor	mation availabl	e		



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Marine se	dimonte				No infor	mation available		
Food chai						mation available		
Microorganisms in sewage treatment						mation available		
Soil (agric		sewage treatment				mation available		
Air						mation available		
8.2.	Exposure controls							
8.2.1.	Engine	eering measures						
	measu	tance/mixture related sures to prevent exposure ig identified uses:			•	n well ventilated r ot eat, drink or sm	•	•
	Struct expos	ural measures to pr ure:	No information available					
	-	nisational measures nt exposure:	Organization of work in order to reduce other worker's influence during work process.					
	Techn expos	ical measures to pr ure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.					
8.2.2.	Persoi	nal protection equip	oment					
8.2.2.1.	Eye ar	nd face protection:		Safety g visor.	lasses tha	at stick to face (pre	eventing splashi	ng) (EN 166) or
8.2.2.2.	Skin p	Skin protection						
	Hand	protection:		ard EN 374 Glove m Glove th	4. naterial: n nickness:	e according to the itrile rubber ≥0.50 mm ne: >480 min	EU Directive 20	)16/425/EEC and
	Other	skin protection:			ic clothing made of natural fibers (such as cotton) with long 3034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respir	ratory protection:	filter f	or organio	II face mask (EN 136) or half mask (EN 140) equipped with a anic vapors, type "A" (boiling point >65°C) acording to EN when concentration levels exceed GVI.			
8.2.2.4.	Therm	al hazards:	No inf	ormation available				
8.2.3.	Enviro	nmental exposure	controls					
		ance/mixture relate ures to prevent expo		See Sec	e Section 6			
	Struct expos	ural measures to pr ure:	event	Use mo	odern equipment.			
	-	nisational measures	to	Adapt t	the work process to the required working conditions of the			

workplace.

prevent exposure:

•



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<b></b>					<u>.</u>

Technical measures to prevent exposure:

See Section 6

	Information on basic physical and che	mical properties		
		Value	Method	
	Physical state:	liquid	No information available	
	Colour:	pale yellow	No information available	
	Odour/odour threshold:	neutral/no information available	No information available	
	Melting point / freezing point:	No information available	No information available	
	Boiling point or initial boiling point and boiling range:	No information available	No information available	
	Flammability:	No information available	No information available	
	Lover and upper explosion limit:	No information available	No information available	
	Flash point:	No information available	No information available	
	Auto-ignition temperature:	No information available	No information available	
	Decomposition temperature:	No information available	No information available	
	pH:	No information available	No information available	
	Kinematic viscosity:	No information available	No information available	
	Solubility:	No information available	No information available	
	Partition coefficient 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:	With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.			
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.			
10.5.	Incompatible materials:	Aluminum.			



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Trading name:	FERRI REAGENT, WEIGERT B				
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	•				

10.6.

Hazardous decomposition products: No information available.

11.1. Informati	on on hazard classes as	defined in Regu	lation (EC) No 12	72/2008		
Acute tox						
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure	time	Results
Oral exposure:	No information available	-	LD <sub>50</sub>	-		-
Dermal exposure:	No information available	-	LD <sub>50</sub>	-		-
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-		-
Specific t	arget organ toxicity – si	ingle exposure (S	TOT SE):			
	Specif	ic effects	Targe	t organ		Note
Oral exposure:	No information	available	No informati	on available	-	
Dermal exposure:	No information	available	No informati	No information available -		
Inhalation exposur	e: No information	available	No informati	on available	-	
	ry irritation: and corrosion	No infor	nation available			
IIIIdioII	Exposure time	Species	Evaluation	Method		Note
Skin irritation:	-	rabbit	-			Note
Eye irritation:	-	rabbit	-			
	1	1	i	I		
Sensitizat	ion					
Dermal exposure:	No information avail	lable				
Inhalation exposure:	No information avail	able				
Symptom	s related to the physica	al, chemical and t	oxicological chara	acteristics		
Oral exposure:	Swallowing may c sensation; higher In case of vomitin concentration ma	ause irritation of levels of concent g, aspiration cau	mucosa, tingling ration may cause ses coughing, diff	sensation in t nausea, abdo	minal pa	ain and vomiti



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Product code:	F	R-OT-X**	R	evision date:	21 Dec 2022	Version:	5
Dermal exposure	•			•	orption effects are sensation of skin.	not likely. Long	g-term exposure
			-	ts of vapors in ache and nause	inadequately vent a.	ilated perimete	r may cause
Eye exposure:		Direct eye co sensation.	ontact may ca	use slight to mo	oderate irritation,	lacrimation and	lburning
Repeate	d dos	se toxicity (sub	acute, subchi	ronic, 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	_	information lable	No information available	No information available	No information available	No information available	-
Subchronic inhalation		information lable	No information available	No information available	No information available	No information available	-
Chronic oral		information lable	No information available	No information available	No information available	No information available	-
Chronic dermal		information lable	No information available	No information available	No information available	No information available	-
Chronic inhalation		information lable	No information available	No information available	No information available	No information available	-
Specific	targe		y – repeated pecific effects	exposure (STO	TRE): Target orga	an	Note
Subacute oral			tion available		o information avai		NOLC



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Trading name:		FER	RI REAG	ENT, WEIGERT B	8					
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Subacute dermal	No informati	on available	No	information availa	hlo	-				
Subacute inhalatio				information availa		_				
Subchronic oral	No informati			information availa		_				
Subchronic dermal				information availa		_				
Subchronic inhalat				information availa		_				
Chronic oral	No informati			information availa		_				
Chronic dermal	No informati			information availa		-				
Chronic inhalation No information				information availa		_				
CMR effe	cts (carcinogenicity,	mutagenicity, rep	oroductive	toxicitv)						
	Carcinogenicity:		Current studies on test animals did not indicate carcinogenic effects.							
	Mutagenicity <i>in-vitro</i> :			did not indicate m		5				
	Genotoxicity:		n available							
Mutageni	city <i>in-vivo</i> :	Current in vi	/o tests c	lid not indicate m	utagenic ef	fects.				
Germ cell	mutagenicity:	No informatio								
Reproduc	tive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.								
Summary	of evaluation of the	e CMR properties:	-							
11.2 Information	on on other hazards	:								
11.2.1. Endocrine	disrupting properti	ies:								
The sub	ostance/mixture c	loes not								
	components consi locrine disrupting									
	nave endocrine disrupting properties according to REACH Article 57(f) or									
Commissi	on Delegated regu	lation (EU)								
	0 or Commission	0								
	8/605 at levels of	r U.1% Or								
11.2.2. Other info										

SECTION 12 ECOLOG	SECTION 12 ECOLOGICAL INFORMATION:								
12.1. Toxicity									
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			



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Fish		LC <sub>50</sub>	96 hou	irs	-		No ormation ailable	-		-	
Crustacea:	Crustacea: EC <sub>50</sub> 48 hou		Irs	-		No ormation ailable	-		-		
Algae/aquatic plants IC50		8 days	-			No ormation ailable	-		-		
Microorganisms LC <sub>50</sub>		72 hou	Irs	-	-		-		-		
Chronic toxicity Dose		Expos time		Species	м	lethod	Eval	uation		Note	
Fish LC <sub>50</sub> 96 ho		96 hou	irs	No information available	-	rmation lable	No info availabl	rmation e	-		
$Crustacea$ $EC_{ro}$ 48 hours		No information available	intormation		No info availabl	rmation e	-				
Algae/aquatic plants IC <sub>50</sub>		72 hou	irs	No information available		rmation lable	No info availabl	rmation e	-		
Other organis	ms	_	-		-	-		-		-	
12.2. Persis	stence a	and degradat	oility								
Abiot	ic degra	adation		-							
	-	gradation hal		Method			Evaluation				Note
Marine water		formation av			information avail					-	
Fresh water		formation av		No information available			le No information available				-
Air No information available			No information available							-	
Soil No information available			Nc	information avail	able	No infor	mation a	vailable		-	
Biode	gradati	on									
% Degradatio	% Degradation Time (days)		5)		Method		Evaluat	ion		Note	9
No information No infor available available			nation	No i avail	nformation N		No information No		No inforr available	No information available	
12.3. Bioac	cumula	tive potentia									



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	Partition	coefficie	nt: n-octanc	l/wate	er (log Ko	ow):						
Value	e C	oncentra	tion p	H	°C	M	ethod		Evalua	ation		Note
-		No     information       available    No information available available		ation	-							
	Bioconce	entration	factor (BCF)									
V	Value Species			I	Method	k		Evaluatio	on	1	lote	
	No information No inform available available		ation	No info availab		on	No in availa	nformatio able	on	No inform available	ation	
					1							
	Chronic	ecotoxici	ty									
	Value Dose			posure time		ecies	Me	thod	Eval	uation	Note	
Chronic	Thronic toxicity on fish LC <sub>50</sub>		LC <sub>50</sub>	No information available		No infori availa	mation able	No inforr availa	mation able	No info availab	ormation le	-
	c toxicity on EC <sub>50</sub> ir					mation able	No inforr availa	mation able	No info availab	ormation le	-	
			·			·						
12.4.	Mobility	in soil										
	Known c	or predict	ed distributi	on in e	environn	nental d	compart	ments:				
	No infor	mation av	vailable									
	Surface	ension:					1					
	Valu	9	°C	C	oncentra	ation		Meth	nod		Nc	ote
	No informat available	ion int	No information available No information available		ation	No information available		-				
	Adsorpt	on / desc	orption									
Transpo	ort	A/D coe <sup>.</sup> Henry's c		lo	og Kow	E١	vaporatio	on rate	e ľ	Method		Note
		,										



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Produc	t code:	FR-OT-X**	Revisio	n date: 21 Dec	2022	Version:	5
	1		1		1		1
Soil-wat	ter No avail	information able	No information available	No information available	No info available		-
Water-a	air No avail	information able	No information available	No information available	No info available		-
Soil-air	No avail	information able	No information available	No information available	No info available		-
12.5.	Results of	f PBT and vPvB asse	ssment				
	according	ance/mixture does g to REACH Article 5 n (EU) 2018/605 at l	7(f) or Commission	n Delegated regula <sup>.</sup>			
12.6.	Endocrine	e disrupting propert	ies				
		ance/mixture does		onents considered t	o have en	docrine di	srupting properties
	according	to REACH Article 5	7(f) or Commission	n Delegated regula			
	Regulatio	n (EU) 2018/605 at	evels of 0.1% or h	igher.			
12.7.		verse effects					
	No inforn	nation available					
	1	OSAL CONSIDERA	TIONS				
13.1.	Waste t	reatment methods					
13.1.1.	Product	t/Packaging disposa	ŀ				
13.1.1.		for disposal to the l		rized by the Minist	ry of Envir	onmental a	and Nature
	Protecti						
13.1.2.	Waste o	odes/waste designa	ations according to	o Law:			
	No info	rmation available					
13.1.3.	Wasta +	reatment – relevant	information:				
15.1.5.		rmation available	information.				
13.1.4.	Sewage	e disposal – relevant	information:				
	Waste r	must not be dispose	d of into the sewa	ge system.			
13.1.5.	Other d	lisposal recommend	ations:				



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Product code:	FR-OT-X**	Revision date:	21 Dec 2022	Version:	5				
authoriz the pac	zed by the ministry ir	nct's remains into the sewa n charge. Do not dispose o ors authorized by the mini	f the packaging int	to the sewage	system. Submit				
13.1.6. Relevan	t Community provisi	ons:							
-									
SECTION 14 TRAI	NSPORT INFORMAT	ION							
Transport	ing/shipment by roa	d (ADR)							
UN number:		Not subject to transpo	ort regulations.						
UN proper shippin	ig name:	-							
Transport hazard o	lass(es):	-							
Packing group:		-							
Environmentally h	azardous:	-							
Special precaution	s for user:	-							
Transport	ing/shipment by rail	(RID)							
UN number:		Not subject to transpo	ort regulations.						
UN proper shippin	ig name:	-							
Transport hazard o	class(es):	-							
Packing group:		-							
Environmentally ha	azardous:	-	-						
Special precaution	s for user:	-							
Inland wa	terway transport (AD	N)							
UN number:		Not subject to transpo	ort regulations.						
UN proper shippin	ig name:	-							
Transport hazard o	:lass(es):	-							
Packing group:		-							
Environmentally h	azardous:	-							
Special precaution	s for user:	-							
Transport	ing/shipment by sea	(IMDG)							
UN number:		Not subject to transpo	ort regulations.						
UN proper shippin	ig name:	-	-						
Transport hazard o	class(es):	-							
Packing group:		-							
Environmentally h	azardous:	-							
Special precaution	s for user:	-							



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Product code:	FR-OT-X**	Revision date:	21 Dec 2022	Version:	5	

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:	-				
Special precautions for user:	-				
Further information: The proc	duct is not subject to classification.				

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations						
	Authorization and/or rest	rictions of use					
	Authorizations:	-					
	Restrictions:	-					
	Other EU regulations:	<ul> <li>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;</li> <li>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 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;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 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;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>					



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Trading name:	FERRI REAGENT, WEIGERT B					
Product code:	FR-OT-X**	Revision date:	21 Dec 2022	Version:	5	
National	legislation:	Chemicals Act, Regulation of dangerous substances, Ord and on biological limit value classification of waste with Ordinance on writing Mater Substances Act	inance on occupates, Regulation on a waste catalog ar	tional exposure categories, typ nd list of hazard	e limit values es and dous waste,	
15.2. Chemica	l safety assessmer	nt				

None

.

SECTIO	ON 16 Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	d _			
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)			
Classifi	cation	Classification procedure			
-		-			
16.5.	Relevant H statements (numb	er and full text)			
	H: H314	Causes severe skin burns and eye damage.			
	H315	Causes skin irritation.			
	H319	Causes serious eye irritation.			
	H335	May cause respiratory irritation.			
16.6.	Training advice:	-			
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			



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Trading name:	FERRI REAGENT, WEIGERT B				
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# **ANNEX:** EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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Trade name:	HEMATOXYLIN, WEIGERT A				
Product code:	HEMA-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

		substance/mix	xture and	of the company/undertaking	
1.1.	Product identifier				
	Trade name:	HEMATOXYLIN,	WEIGERT	4	
	Chemical name:	-			
	Catalogue number:	HEMA-OT-X**			
1.2.	Relevant identified uses of the substance or mixture and uses advised against			e and uses advised against	
	Uses:		For use i	n special staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advised	d 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:	BioGno	oGnost Ltd.		
	Address:	Medju	Medjugorska 59, Zagreb		
	Telephone number:	+385 1	5 1 2409997		
	Telefax:	+385 1	+385 1 2404039 <u>msds@biognost.hr</u>		
	e-mail of competent per	son: <u>msds@</u>			
	National contact:	-			
1.4.	Emergency telephone nu	ımber			
	National Protection and	Rescue Director	ate:	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	lation (EC) No 1272/2008 (CLP)			
	Hazard class and category code: Hazard statements*:				
	Flam. Liq. 2 H225				
	Skin. Sens. 1 H317				
	Muta. 2	H341			
	Canc. 2	H351			
2.1.2.	Additional information				
	-				
*For fu	full text of Hazard- and EU Hazard-statements: see Section 16				
2.2.	Label elements				
	Product identification:	HEMATOXYLIN, WEIGERT A			



Page 2 of 18 Trade name: **HEMATOXYLIN, WEIGERT A** 5 Product code: HEMA-OT-X\*\* Date of compilation: 21 Dec 2022 Version: Identification number: -Authorisation number: -Hazard pictograms: GHS02 GHS07 GHS08 Signal word: Danger H225 Highly flammable liquid and vapor. H317 May cause an allergic skin reaction. Hazard statements: H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke. P280 Wear protective gloves/protective clothing/eye/protection/face Precautionary statement: protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P308 + P313 IF exposed or concerned: Get medical advice/attention. Supplemetal 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. Compo	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)			
107-21-1/ 203-473-3/ 603-027-00-1	01-2119456816- 28-xxxx	1- 10 %	ethylene glycol	Acute Tox. 4, H302			
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610- 43-0147	60 – 80 %	ethanol	Flam. Liq. 2, H225			
121-79-9/ 204-498-2/ 607-198-00-3	-	1- 3 %	propyl gallate	Acute Tox. 4, H302 Skin Sens. 1 H317			



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Trade name:	HEMATOXYLIN, WEIGERT A						
Product code:	HEMA-OT-X**	X** Date of compilation: 21 De		21 Dec	2022	Version:	5
123-31-9/ 204-617-8/ 604-005-00-4	-	1- 3 %	hydroqu	uinone	Skin Eye Mut Can	te Tox. 4; H302 Sens. 1; H317 Dam. 1; H318 a. 2; H341 c. 2; H351 atic Acute 1; H4	400

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. Thoroughly wash with water for 15 minutes.			
	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 15 minutes with the eyelids held wide open.			
	Following ingestion:	Rinse the mouth thoroughly with water. If the afflicted person is conscious, provide them with large amounts of water. Consult a physician.			
	Self-protection of the first aider	-			
4.2.	Most important symptoms and effects, both acute and delayed				
	Following inhalation:	May cause eye irritation and upper respiratory system (stinging sensation, irritation). Bronchoconstriction is possible. Possible symptoms include CNS symptoms such as headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration.			
	Following skin contact:	Defatting, dry skin.			
	Following eye contact:	Splatter may cause discomfort, stinging sensation, conjunctival redness, corneal surface lesions.			
	Following ingestion:	It may lead to occurrence of strong sensation of stinging, headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration. If denaturants are present, dyspepsia may occur (such as vomiting).			
4.3.	Indication of any immediate medic	cal attention and special treatment needed			
	No information available				

SECTIO	ON 5. Firefighting measures
5.1.	Extinguishing media



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Trade name:	HEMATOXYLIN, WEIGERT A				
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	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam	
	Unsuitable extinguishing media:	Water jet	
5.2.	Special hazards arising from the substa	ance or mixture	
	Hazardous combustion products:	Incomplete combustion of the product.	
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		
	-		

SECTIO	ON 6. Accidental release	measures			
6.1.	Personal precautions, pr	rotective equip	oment and emergency procedures		
6.1.1.	For non-emergency per	sonnel			
	Protective equipment:		When disposing of small quantities use protective clothing. When disposing of large quantities use self-contained open-circuit compressed air breathing apparatus or self-contained closed-circuit air breathing apparatus.		
	Accident prevention me	thods:	Secure a safety zone, remove all ignition sources, and in case of an accident inform the Emergency service (112) and the manufacturer or sender. Position a prohibition sign with symbols of flame and devices that cause sparks.		
	Emergency procedures:	Remove or neutralize all factors that may exacerbate the condition, use all allowed means of containing the situation and use recommended means of personal protection.			
6.1.2.	For emergency respond	ers:			
	Self-contained open-circ dissipation (fireproof clo	•	ed air breathing apparatus, a set for protecting the body from heat		
6.2.	Environmental precaution	ons:			
	•	sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by allowing the chemicals to enter the sewage system, surface water or groundwater.			
6.3.	Methods and material for	or containmer	nt 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, sa	nd, mineral adsorbents		
6.3.3.	Other information:	spills and po	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112).		



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Trade name:	HEMATOXYLIN, WEIGERT A				
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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 ignition and heat. Do not use tools that cause sparks.			
	Measures to prevent aerosol and dust generation	า:	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 incomp	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:		a well-ventilated place. Keep away from d direct solar radiation.			
	Packaging materials:	Manufacturer's original packaging. Keep away from food and drink. Keep the containers tightly closed.				
	Requirements for storage rooms and vessels:					
	Advices for storage equipment:	must be drain th	rage must be made of hard material; floors e resistant to chemicals. There must be no hat directly leads into sewage system. Secure ventilation.			
	Further information on storage conditions:	-				
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				

SECTION 8. Exposure controls/personal protection						
8.1. Control parameters						
Substance	CAS No	CAS No Occupational exposure limit values/short term values ppm mg/m <sup>3</sup>		Biological limit values		
Ethanol	64-17-5	1000/-	1900/-	-		
Ethylene glycol	107-21-1	20/40	52/104	-		
Hydroquinone	123-31-9	-/0,5	-/-	-		



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Substance: -						
EC No: -	CAS No:	_				
DNEL		1				
		Ind	lustrial			
Route of exposure:	Acute effect local	Acuto effect sys		Chronic effect local	Chronic effect systemic	
Oral	-	-		-	-	
Inhalation	1900 mg/m <sup>3</sup> (ethanol)	-		35 mg/ kg (ethylene glycol)	380 mg/m <sup>3</sup> (ethanol)	
Dermal	-	-		-	343 mg/kg (ethanol) 106 mg/kg (ethylene glycol)	
Critical physical parar	neters: solubility, fla	mmability, cori	rosivity:			
	1	Cor	nsumer			
Route of exposure:	Acute effect local	Acuto effect sys		Chronic effect local	Chronic effect systemic	
Oral	Oral	-		-	-	
Inhalation	950 mg/m <sup>3</sup> (ethanol)	-		7 mg/kg (ethylene glycol)	114 mg/m <sup>3</sup> (ethanol)	
Dermal	-	-		-	206 mg/kg (ethanol) 53 mg/kg (ethylene glycol)	
PNEC						
Environmental protec	tion target		PNEC			
Fresh water			0.96 mg/l (ethanol) 10 mg/l (ethylene glycol)			
Freshwater sediments	5		3.6 mg/kg (ethanol) 37 mg/kg (ethylene glycol)			
Marine water			0.79 mg/l (ethanol) 1 mg/l (ethylene glycol)			
Marine sediments			2.9 mg/kg (ethanol)			
Food chain				g (ethylene glycol) mg/kg kg (ethanol)		
				(ethanol)		
Microorganisms in se	wage treatment		-	g/l (ethylene glycol)		
Soil (agricultural)			-	'kg (ethanol) 'kg (ethylene glycol)		



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Air			no information available			
8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measu prevent exposure during identifie		Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:		No information available			
	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:		See Section 7.2			
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN166) 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					
			rotective gloves must be according to the EU Directive D16/425/EEC and standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection: such a spillin suitab		uring everyday work use cotton clothing and suitable footwear, ch as rubber boots or shoes that cover the entire foot. In case of illing hazard, use clothing made of impermeable material itable for protection from liquid chemicals (Viton, PVC, himex) d 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 inf	ormation available			
8.2.3.	Environmental exposure controls	;				
	Substance/mixture related measures to prevent exposure:	See	e Section 6			
	Structural measures to prevent exposure:	Use	e modern equipment.			
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of he workplace.			
	Technical measures to prevent exposure:	See	e Section 6			



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.1.	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	brown	No information available			
	Odour/odour threshold:	ethanol like/no information available	No information available			
	Melting point / freezing point:	No information available	No information available			
	Boiling point or initial boiling point and boiling range:	No information available	No information available			
	Flammability:	No information available	No information available			
	Lover and upper explosion limit:	No information available	No information available			
	Flash point:	20°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			

SECTIC	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 (room temperature).			
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:	High temperatures, ignition sources, open flame.			



10.6.

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10.5. Incompa	tible materials:	Oxidants, acio	ls, alkali metals.							

Non-degradable if used in the described manner. Hazardous decomposition products:

SECTION 11.1	Foxicological informa	ation								
11.1. Inform	mation on hazard class	es as define	d in Regul	ation (EC	C) No 12	272/200	08			
Acute	e toxicity:									
Route of exposure:	Method	Method Species			Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub> Exposi			Results		
Oral:	No information available	rat	LD <sub>50</sub>		- 7.712			(ethanol) ylene glycol) droquinone)		
Dermal:	No information available	rabbit	LD <sub>50</sub>		-		>3.500 (ethyle	<ul> <li>&gt;20.000 mg/kg (ethanol)</li> <li>&gt;3.500mg/kg</li> <li>(ethylene glycol)</li> <li>367.3 mg/kg (hydroquinone)</li> </ul>		
Inhalation:	No information available	rat	LC <sub>50</sub>		4 h (etha	nol)	>8.000	) mg/l (etha	nol)	
	<b>6</b>		(07							
Speci	fic target organ toxicit		posure (ST	OT SE):				-		
	•	cific effects		Target organ			1	Note		
Oral:	No information			No information available			-			
Dermal:	No information	available	No information available			able	-			
Inhalation:	No information	available		No inf	ormatio	on avail	able	-		
Aspira	ation hazard:		No inform	nation av	vailable					
Irritat	ion and corrosion									
innac	Exposure	time	Species	Evalu	uation	Me	thod	٦	lote	
Skin corrosion/irrita		-		-		-		No available	information	
Serious eye damage/irritati	ion -	-		-		-		No available	information	
Sensit	tization:									
Skin sensitizati	on: No information	available								
Respiratory sensitization:	No information	available								



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Symptoms	s related to the physical, chemical and toxicological characteristics
Oral exposure:	It may lead to occurrence of strong sensation of stinging, headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration. If denaturants are present, dyspepsia may occur (such as vomiting).
Dermal exposure:	Defatting, dry skin.
Inhalation exposure:	May cause eye irritation and upper respiratory system (stinging sensation, irritation). Bronchoconstriction is possible. Possible symptoms include CNS symptoms such as headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration.
Eye exposure:	Splatter may cause discomfort, stinging sensation, conjunctival redness, corneal surface lesions.

	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	-



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	:			HEMATOXYLIN, WEIGERT A					
Product coc	le: H	EMA-OT-X*	* Date of	f compilation:	mpilation: 21 Dec 2022		Version:	5	
		No information available No available		No information available	No information available	No infor avail	mation able	-	
Spe	cific targe	t organ toxic	ity – repeated e	xposure (STOT	RE):				
			Specific effect	S	Target org	jan		Note	
Subacute ora	1	No infor	mation available	e No	o information av	ailable	-		
Subacute der	rmal	No infor	mation available	e No	o information av	ailable	-		
Subacute inh			mation available		o information av		-		
Subchronic o	-		mation available		o information av		-		
Subchronic d			mation available		o information av		-		
Subchronic inhalation No informat			mation available			o information available			
Chronic oral No information							-		
Chronic derm			mation available	e No	o information av	ailable	-		
Chronic inhal	lation	No infor	mation available	e No	o information av	ailable	-		
CMI	R effects (	carcinogenic	mation available ity; mutagenicity	; reproductive	toxicity)				
CM Care	R effects ( cinogenici	carcinogenic ty:		y; reproductive Suspected	toxicity) of causing cance				
CMI Card Mut	R effects ( cinogenici tagenicity	carcinogenic ty:		r; reproductive Suspected No inform	toxicity) of causing cance ation available	er.			
CMI Caro Mut Gen	R effects ( cinogenici tagenicity totoxicity:	carcinogenic ty: <i>in-vitro:</i>		/; reproductive Suspected No inform Suspected	toxicity) of causing cance	er.			
CMI Card Mut Gen Mut	R effects ( cinogenici tagenicity totoxicity: tagenicity	carcinogenic ty: in-vitro: in-vivo:		y; reproductive Suspected No inform Suspected No inform	toxicity) of causing cance ation available of causing gene	er.			
CMI Card Mut Gen Mut Ger	R effects ( cinogenici tagenicity totoxicity: tagenicity	carcinogenic ty: <i>in-vitro:</i> <i>in-vivo</i> : tagenicity:		y; reproductive Suspected No inform Suspected No inform No inform	toxicity) of causing cance ation available of causing gene ation available	er.			
CMI Card Mut Gen Mut Gen Rep	R effects ( cinogenici tagenicity otoxicity: tagenicity m cell mu roductive	carcinogenic ty: <i>in-vitro:</i> <i>in-vivo</i> : tagenicity: toxicity:		y; reproductive Suspected No inform Suspected No inform No inform	toxicity) of causing cance ation available of causing gene ation available ation available	er.			
CMI Caro Mut Gen Mut Gen Rep Sum proj	R effects ( cinogenicit tagenicity tagenicity tagenicity m cell mu roductive nmary o perties:	carcinogenic ty: <i>in-vitro:</i> <i>in-vivo</i> : tagenicity: toxicity:	ity; mutagenicity	y; reproductive Suspected No inform Suspected No inform No inform	toxicity) of causing cance ation available of causing gene ation available ation available	er.			
CMI Card Mut Gen Mut Ger Rep Sum proj	R effects ( cinogenicity tagenicity tagenicity m cell mu roductive nmary o perties:	carcinogenic ty: <i>in-vitro:</i> <i>in-vivo</i> : tagenicity: toxicity: f evaluatior	ity; mutagenicity n of the CN rds:	y; reproductive Suspected No inform Suspected No inform No inform	toxicity) of causing cance ation available of causing gene ation available ation available	er.			
CMI Card Mut Gen Mut Gen Mut Gen Nut 11.2. Info 11.2. Info 11.2.1. End	R effects ( cinogenicity tagenicity tagenicity tagenicity m cell mu roductive nmary o perties:	carcinogenic ty: <i>in-vitro:</i> <i>in-vivo</i> : tagenicity: toxicity: f evaluation f evaluation	ity; mutagenicity n of the CN rds:	y; reproductive Suspected No inform Suspected No inform No inform No inform	toxicity) of causing cance ation available of causing gene ation available ation available	er.			

SECTIO	N 12. Ecological information:
12.1.	Toxicity



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Acute (short-tern toxicity	n)	Dose	Exposure time	Species	Method	Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	Fish	No informatior available	8.140 mg/l (ethanol) 72.860 mg/l (ethylene glycol) 0.638 mh/l (hydroquinone)	-
Crustacea:		EC <sub>50</sub>	48 hours	water flea	No informatior available	7.800 mg/l (ethanol) >100 mg/l (ethylene glycol) 0.134 mg/l (hydroquinone)	-
Algae/aquatic pla	ants	IC <sub>50</sub>	72 hours	algae	No informatior available	5.000 mg/l (ethanol) 6.500-13.000 mg/l (ethylene glycol) 0.33 mg/l (hydroquinone)	-
Microorganisms		-	-	No information available	No informatior available	No information available	-
Chronic (long-ter toxicity	rm)	Dose	Exposure time	Species	Method	Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic pla	ants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Microorganisms		-	-	-	-	-	-
12.2. Persister	nce a	nd degradab	ility				
Abiotic of							
		egradation h	alf-lives	Metho	bo	Evaluation	Note
Marine water	No ir	formation a	vailable	No information	available	No information available	-
Fresh water	No ir	formation av	vailable	No information	available	No information available	-
Air	No ir	formation av	vailable	No information	available	No information available	-
Soil	No ir	formation a	vailable	No information	available	No information available	-



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	Biodegra	dation									
% Deg	gradation	Tim	ne (days	)	١	Method		Evaluation		Note	е
_		_		_			-			-	
12.3.	Bioaccum										
				anol/wate							
Valu	ue Co	oncentrati	ion	рН	°C	Method		Evaluatio	on	No	ote
-	-			-	-	-	-			-	
	Bioconce	ntration f									
	Value		Specie		Method			Evaluation		Note	
No info availab	ormation	No info availab			No information available		No information available			No information available	
avallaŭ	ne	avaliau	le	availa		Jie	available				
	Chronic e		,								
	Chronic e	cotoxicity	<i>y</i>	Evo	osure						
	Value		Dose		me	Species	N	1ethod	I	Evaluation	Note
				No		No	No		No	information	
Chroni	c toxicity o	n fish	$LC_{50}$	inform		information	1	rmation	+	information lable	-
				availal	ole	available		lable			
	c toxicity o		EC <sub>50</sub>	No inform	nation	No information	No	rmation		information	_
crustad	cea (Daphni	a)	LC30	availal		available		lable	avai	lable	
											1
12.4.	Mobility	in soil									
	Known o	r predicte	d distrik	oution in e	environr	nental compar	tments:				
	No inforr	mation av	ailable								
	Surface to	ension:									
				6	oncentr	ation	Method		Note		



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				I I							
		No No information information available available		No information available	No information available	-					
	Ads	orption /	desorption	1							
Transpo	ort		coefficient y's constant	log Kow	Evaporation rate	Method	Note				
Soil-wa	ter	No availabl	information e	No information available	No information available	No information available	-				
Water-a	air	No availabl	information e	No information available	No information available	No information available	-				
Soil-air		No availabl	information e	No information available	No information available	No information available	-				
12.5.	Res	ults of PB	T and vPvB asses	sment							
				•		ther persistent, bioac els of 0.1% or higher.	cumulative and				
12.6.	End	ocrine dis	srupting properti	es							
	ассо	ording to	REACH Article 57	•	Delegated regulatio	have endocrine disru n (EU) 2017/2100 or					
12.7.	Oth	er advers	e effects								
	No	adverse e	effects are expect	ed.							
SECTIO	N 13	. Disposa	al considerations	5							
13.1.	W	aste trea	tment methods								
13.1.1.	Dr	oduct/Pa	ckaging disposal								
13.1.1.	Su		disposal to the le		ed by the Ministry	of Environmental and	l Nature				
13.1.2.	W	aste code	es/waste designa	tions according to L	aw:						
	N	o informa	ation available								



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13.1.3. Waste t	reatment – relevant i	nformation				
	rmation available	niormation.				
13.1.4. Sewage	e disposal – relevant i	nformation:				
Waste r	must not be disposed	of into the sewage system.				
13.1.5. Other c	lisposal recommenda	tions				
		ct's remains into the sewage	austam Submit the	romains to th	o colloctors	
		charge. Do not dispose of the	-			
the pac		ors authorized by the ministr				
	nt Community provision	ons:				
_						
SECTION 14. Trar	nsport information					
Transport	ting/shipment by road	d (ADR)				
UN number:		1170				
UN proper shippir	ng name:	Ethanol solution				
Transport hazard o	class(es):	3				
Packing group:		I				
Environmental haz	ards:	No information available				
Special precaution	is for user:	-				
Transport	ting/shipment by rail	(RID)				
UN number:		1170				
UN proper shippir	ng name:	Ethanol solution				
Transport hazard o	class(es):	3				
Packing group:		I				
Environmental haz	ards:	No information available				
Special precaution	is for user:	-				
Transport	ting/shipment by inla	nd waterways (ADN)				
UN number:		1170				
UN proper shippir	ng name:	Ethanol solution				
Transport hazard class(es):		3				
Packing group:		11				
Environmental haz	ards:	No information available				
Special precaution	s for user:	-				



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Transporting/shipment by sea (IN	ADG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC/	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Further information: -	

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



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Trade r	name:		HEMATOXYLI	N, WEIGERT A		
Produc	t code:	HEMA-OT-X**	Date of compilation:	21 Dec 2022	Version:	5
	Other EU regulations: Information according 1999 guideline)		Regulation (EC) No 1907/2006 18 December 2006 concerning Restriction of Chemicals (REA amending Directive 1999/45/EC and Commission Regulation 76/769/EEC and Commission I 2000/21/EC; Directive 2004/42/CE of the Eu 2004 on the limitation of emissio organic solvents in certain paints amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 / of workers from the risks related Regulation (EC) No 1272/2008 of December 2008 on classification mixtures, amending and repeat amending Regulation (EC) No 19 REACH Restrictions on the manudangerous substances, mixtures	the Registration, I CH), establishing a and repealing Coun- (EC) No 1488/94 a Directives 91/155/EE ropean Parliament a ons of volatile organic s and varnishes and v April 1998 on the pro- to chemical agents a of the European Parlia ion, labelling and p aling Directives 67/5 007/2006; ufacturing, placing on	Evaluation, Auth European Chen cil Regulation (E s well as Cou C, 93/67/EEC, 9 nd of the Coun c compounds du ehicle refinishing tection of the he t work; ment and of the backaging of su 48/EEC and 19 the market and	and a second sec
			13/EC about limitation of emis	sions of volatile or	ganic compour	ids (VOC-
	National I	egislation:	Chemicals Act, Regulation on dangerous substances, Ordin and on biological limit values classification of waste with a Transport of Hazardous Subs	ance on occupatior , Regulation on cate waste catalog and l	nal exposure lin egories, types a	nit values and
15.2.	Chemical	safety assessment				
	None					

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
16.3.	Key literature references and source of data:	-



-

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16.4.		Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classifi	icatior	1	Classification procedure				
-			-				
16.5.	Rele	evant H statements (num	per and full text)				
	H:	225 302 317 318 341 351 400	Highly flammable liquid and vapor. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause cancer. Very toxic to aquatic life.				
16.6.	Trai	ning advice:	-				
16.7.	Further information:		<ul> <li>** "X" in the product code marks different volumes (different packaging of the product)</li> <li>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.</li> </ul>				

# ANNEX: **EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT**



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Trading name:	P.T.A. – P.M.A. REAGENT					
Product code:	PPR-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

<b>SECTI</b>	ON 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING Product identifier				
	Trading name:	P.T.A. – P.M.A	A. REAGEN	T	
	Chemical name:	-			
	Catalogue number:	PPR-OT-X**			
1.2.		of the substa	ance or mi	xture and uses advised against	
	Uses:		For use w staining k	ith Masson Trichrome and Masson-Goldner Trichrome its.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advise	ed 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:	Bio	ioGnost Ltd.		
	Address:	Me	/ledjugorska 59, Zagreb		
	Telephone number:	+38	385 1 2409997		
	Fax no.:	+38	-385 1 2404039		
	e-mail of competent pe	rson: <u>ms</u>	nsds@biognost.hr		
	National contact:	-			
1.4.	Emergency telephone n	umber			
	National Protection and	Rescue Direc	ctorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2 HAZARDS INFORMATION					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification (REGULATION (EC) N	lo. 1272/2008	(CLP)			
	Hazard class and category	code:		Hazard statements*:		
	Not identified as hazardous substa	ance.	-			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-sta	tements: see S	ection 16			
2.2.	Classification according to EC Dire	ctive Nr. 1272	/2008 CLP)			
	Product identification:	P.T.A. – P.M.A	. REAGENT			
	Identification number:	-				
	Authorization no.:	-				



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

SECTION 3 CO	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS					
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
-	-	-	Contains no hazardous substances	-		

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



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

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

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



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6.3.2. Cleaning up:		up:	Where possible, the substance of material (sand, diatomaceous ea in tightly closed impermeable co ventilated storage rooms until d persons authorized by the Minis Protection. After disposal of the materials with water.	arth, vermiculite). Pl ontainers. Store the lisposal. Submit for stry of Environment	ace the waste material substance in well disposal to the legal al and Nature	
6.3.3.	Other information: -		-			

6.3.3.	Other information: -	
6.4.	Reference to other sections	
	-	

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



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8.1.	Con	trol para	ameters							
	Substance		CAS N	0		upational exposure limit lues/short term values		Biological limit value		
						ppm	mg,	′m³		
-				-		-	-		No information available	
Substa	nce									
name:		-		1						
EC No: -		CAS No:	-							
DNEL										
						Industrial				
			Acute ect local	effe	Acute ect systemic	_	hronic ect loca			
Oral			-		-		-		-	
Inhalati	ion		-		-		-		-	
Dermal -			-		-		-			
Critical	physi	cal para	meters: s	olubility, flar	nmabili	ty, corrosivity	: -			
						Consume	•			
Route exposi				Acute ect local	effe	Acute ect systemic	Chronic effect local		Chronic al effect systemic	
Oral			-		-		-		-	
Inhalati	ion		-		-		-		-	
Dermal	I		-		-		-		-	
PNEC										
Enviror	nment	al prote	ction tar	get		PNEC				
Fresh w	vater					No in	No information available			
Freshw	ater se	ediment	S			No in	No information available			
Marine	water					No in	No information available			
Marine	sedin	nents				No in	No information available			
Food chain				No in	No information available					
Microo	rganis	ms in se	ewage tr	eatment		No in	formation	availab	le	
Soil (ag	gricult	ural)				No in	formation	availab	le	
Air					-	No in	formation	availab	le	



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8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to 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	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					
			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:		ar antistatic clothing made of natural fibers (such as cotton) with long ves (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter f	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 expo		See Section 6			
	Structural measures to pr exposure:	event	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pre exposure:	event	See Section 6			

SECTIC	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES			
9.1.	9.1. Information on basic physical and chemical properties			
	Value Method			



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.2.	Other information		
	Particle characteristics:	No information available	No information available
	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
	Lover 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:	colourless	No information available
	Physical state:	liquid	No information available

SECTIC	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:



Dermal exposure:

Eye exposure:

Inhalation exposure:

No information available

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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Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results	
Oral exposure:	No information available	-	LD <sub>50</sub>	-	-	
Dermal exposure:	No information available	-	LD <sub>50</sub>	-	-	
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-	-	
Specific ta	rget organ toxicity – s	ingle exposure (	STOT SE):			
į		fic effects	Target org	jan	Note	
Oral exposure: No information availal			No informatio available	-		
Dermal exposure: No information		available	No informatio available	n _		
Inhalation exposure	Inhalation exposure: No information available			No information		
Respiratory	y irritation:	No info	rmation available			
Irritation a	nd corrosion					
	Exposure time	Species	Evaluatic	n Met hod	Note	
Skin irritation:	-	-	-			
Eye irritation:	-	-	-			
Sensitizatio	on					
Dermal exposure:	No information avai	ilable				
Inhalation exposure:	No information avai	ilable				
Symptoms	related to the physic	al, chemical and	toxicological charac	teristics		
Oral exposure:	No information a		-			



PPR-OT-X\*\*

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<b>I</b>	ed dose toxicity (su Dose	Exposure	Species	Method	Evaluation	n Note
Subacute oral	No information available	time No information available	No informatic available	No information available	No informatic available	on -
Subacute dermal	No information available	No information available	No informatic available	No information available	No informatic available	on -
Subacute inhalation	No information available	No information available	No informatic available	No information available	No informatic available	on -
Subchronic oral	No information available	No information available	No informatic available	No information available	No informatic available	on -
Subchronic dermal	No information available	No information available	No informatic available	No information available	No informatic available	on -
Subchronic inhalation	No information available	No information available	No informatic available	No information available	No informatic available	on -
Chronic oral	No information available	No information available	No informatic available	No information available	No informatic available	on -
Chronic dermal	No information available	No information available	No informatic available	No information available	No informatic available	on -
Chronic inhalation	No information available	No information available	No informatic available	No information available	No informatic available	on -
Cracific	targat argan tavia	tu repeated a				
Shecilic	target organ toxic	Specific effects		Target org	an	Note
Subacute oral		ation available		No information ava		-
Subacute dermal		ation available		No information available		_
Subacute inhalat		ation available		No information ava		-
Subchronic oral		ation available		No information available		-
Subchronic derm		ation available		No information available		-
Subchronic inhal		ation available		No information ava		-
Chronic oral		ation available		No information available		



-			-					Page 10 d	of 16
Trading name:									
Produc	Product code: PP		R-OT-X**	Date of cor		mpilation:	21 Dec 2022	Version:	4
Chronic	Chronic dermal No informati		No informatio	n availa	n available No information available		nation available	-	
Chronic	Chronic inhalation No information		No informatio	n availa	ble	No inforn	nation available	-	
	CMR effec	cts (ca	arcinogenicity, n	nutager	nicity, reprod	uctive toxicit	y)		
	Carcinoge	enicity	<b>/:</b>	Based on available data, the classification criteria are not met.					
	Mutageni	city in	n-vitro:	Based on available data, the classification criteria are not met.					
	Genotoxic	city:		Based on available data, the classification criteria are not met.					
	Mutageni	city in	n-vivo:	Based on available data, the classification criteria are not met.					
	Germ cell mutagenicity: Reproductive toxicity:		genicity:	Based on available data, the classification criteria are not met.					
			oxicity:	Based on available data, the classification criteria are not met.					
	Summary	of ev	aluation of the	CMR pr	operties:	-			
11.2	Informatio	on on	other hazards:						
11.2.1.	Endocrine	disru	pting propertie	es:					
	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 info	ormati	ions:						
	-								

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



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

### 12.2. Persistence and degradability

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

#### Biodegradation

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

### 12.3. Bioaccumulative potential

Value	Concentration	рΗ	°C	Method	Evaluation	Note
-	No information available	-	-	No information available	No information available	-



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	Bioconc	entratic	on factor (BCF)							
١	Value Species		Method		Evaluation		Note			
No info availab	ormation ble	No avai	-		n No information available		No information available		No information available	
	Chronic	ecotoxi	icity							
	Value		Dose		oosure ime	Species	Method		Evaluation	Note
Chroni	c toxicity c	on fish	LC <sub>50</sub>			lo nformation vailable	No information available		information ailable	-
	c toxicity c cea ( <i>Daphr</i>		EC <sub>50</sub>	No infor avail	mation ir	lo nformation vailable	No information available	1	information ailable	-
	No infor Surface		available :							
				Concentration			Method			
	Valu	e	°C	C	oncentratio	n	Method		Not	e
	Value No informat available	tion	°C No information available	No	oncentratio informatio iilable		ormation		- Not	e
	No informat	tion	No information	No	informatio	n No inf	ormation			e
	No informat available	tion	No information	No	informatio	n No inf	ormation			e
Transp	No informat available Adsorpt	tion ion / de A/D co	No information available	No ava	informatio	n No inf availal	ormation			e Note
Transp Soil-wa	No informat available Adsorpt	tion e ion / de A/D cc Henry's	No information available esorption pefficient	No ava	informatio nilable og Kow	n No inf availal Evap	ormation ole	)	-	
•	No informat available Adsorpt ort ater No ava	tion e ion / de A/D co Henry's ilable	No information available esorption pefficient s constant	No ava lc No ir availa	informatio hilable og Kow hformation able hformation	n No inf availat Evap No inform	formation ole		- Method No information	



Page 13 of 16 Trading name: P.T.A. – P.M.A. REAGENT Product code: PPR-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 SECTION 13 DISPOSAL CONSIDERATIONS 13.1. Waste treatment methods 13.1.1. Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection. 13.1.2. Waste codes/waste designations according to Law: No information available 13.1.3. Waste treatment - relevant information: No information available 13.1.4. Sewage disposal - relevant information: Waste must not be disposed of into the sewage system. 13.1.5. Other disposal recommendations: Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. 13.1.6. Relevant Community provisions: \_



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SECTION 14 TRA	NSPORT INFORMA	ATION
Transpoi	rting/shipment by roa	bad (ADR)
UN number:		Not subject to transport regulations.
UN proper shippi		-
Transport hazard	class(es):	-
Packing group:		-
Environmentally h		-
Special precautio	ns for user:	-
Transpoi	rting/shipment by rai	il (RID)
UN number:		Not subject to transport regulations.
UN proper shippi	ng name:	-
Transport hazard	class(es):	-
Packing group:		-
Environmentally h	nazardous:	-
Special precautio	ns for user:	-
	aterway transport (A	ADN)
UN number:		Not subject to transport regulations.
UN proper shippi	ng name:	-
Transport hazard	class(es):	-
Packing group:		-
Environmentally h	nazardous:	-
Special precautio	ns for user:	-
Transpoi	rting/shipment by sea	ea (IMDG)
UN number:		Not subject to transport regulations.
UN proper shippi	ng name:	-
Transport hazard	class(es):	-
Packing group:		-
Environmentally h	nazardous:	-
Special precautio	ns for user:	-
Transpoi	rting/shipment by air	r (ICAO-TI/IATA-DGR)
UN number:		Not subject to transport regulations.
UN proper shippi	ng name:	-
Transport hazard	class(es):	-
Packing group:		-
Environmentally ł	nazardous:	-



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Special precaution	ns for user:	-		
Further information	on: -			

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:	<ul> <li>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;</li> <li>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 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;</li> <li>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;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>			
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessment				
	None				

SECTION 16 Other information					
16.1.	Indication of changes:	-			



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Trading name: Product code: PPR-OT-X**			P.T.A. – P.M.A. REAGENT				
		PPR-OT-X**	Date of compilation: 21 Dec 2	2022 Version:	: 4		
16.2.	Abbreviati	ions and acronyms:	ADR: Accord relatif au transport international route (European Agreement Concerning the II Goods by Road) IMDG: International Maritime Code for Dange IATA: International Air Transport Association GHS: Globally Harmonised System of Classif EINECS: European Inventory of Existing Comm CAS: Chemical Abstracts Service (division of 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 Bioaccumulati	nternational Carriage of rous Goods ication and Labelling of nercial Chemical Substa f the American Chemica	f Dangerous f Chemicals nces		
16.3.	Key literat source of	ure references and data:	·				
16.4.		Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classification			Classification procedure				
-			-				
16.5.	Relevant H statements (number and full text)						
	H: -						
16.6.	Training a	dvice:	-				
16.7.	Further in	formation:	* "X" in the product code marks different volumes (different packagings of he 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 naterial safety data sheet.				

### ANNEX:

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Exposure scenario resulting to Chemical safety assessment