

#### MASSON-GOLDNER TRICHROME KIT

#### **VERSION 3**

The kit contains:

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



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

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

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	ACETIC ACI	ACETIC ACID, 1% SOLUTION		
	Chemical name:	-	-		
	Catalogue number:	OK1-OT-X*	*		
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjug	orska 59, Zagreb	
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			-	
	Other information:			-	

SECTIO	ON 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard statements*:					
	Not identified as hazardous su	-				
2.1.2.	Additional information					
	-	-				
*For ful	ll text of Hazard- and EU Hazard-	-statements: see S	SECTION 16			
2.2	Label elements					
	Product identification:	ACETIC ACID, 19	% SOLUTION			
	Identification number:	Identification number: -				
	Authorization number:	-				
	Hazard pictograms:	-				



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	The product has no other know	n specific hazards for human or environment.		
	Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.			
	Endocrine disrupting property:	Based on available data, does not contain endocrine disruptors.		

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

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



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

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

SECTIO	ON 6. Accidental release measur	res			
6.1	Personal precautions, protective	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in ca (see Section 8).	se of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for conta	inment and cleaning up			



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

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



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

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Trading name:				ACET	IC ACID,	, 1%	SOLUTIO	V		
Product code:	OK1-01	Γ-X**	D	ate of	compilat	ion:	23 Dec 2	2022	Version:	4
Further in	nformation	on storaç	ge condition	ns:	and do	not u	ise empty c o not store	ontainers	l in the storage ros for storing other ompatible materia	r
7.3 Specific 6	end use(s)				•					
Recomm	endations:			-						
Industria	l sector spe	cific solut	tions:	-						
SECTION 8. Expo		ols/perso	onal protec	tion						
8.1 Control p	parameters	I		I						
					oational ex	-				
Substance		CA	S No		values/short term				Biological limit values	
Acetic acid		64	-19-7		om /20		/50			
Acetic acid		04	-13-1	10,	/20		730			
Substance name:	_									
EC No:	_	CAS No	):       -							
DNEL		•								
				Indu	strial					
Route of	Acı	ıte	Acut	te		Chro	onic		Chronic	
exposure:	effect	local	effect sys	stemic	(	effect	local		effect systemic	
Oral	-		-		-			-		
Inhalation	-		-		-			-		
Dermal	-		-		-			-		
Critical physical pa	arameters: s	solubility,	flammabilit	ty, corro	sivity:	-				
			1	Cons	umer					
Route of	Acı		Acut		Chro				Chronic	
exposure:		local	effect sys	stemic		effect	local		effect systemic	
Oral	-		-		-			-		
Dermal	Inhalation		-		-			-		
PNEC			-					-		
			ь	DAILE						
Environmental protection target  Fresh water				PNEC no information available						
Freshwater sedime	ents				o informa					
Marine water					o informa					
Marine sediments					o informa					



Food chain

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

no information available

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Microorga	nisms in sewage treatment		no information available			
Soil (agrice	ultural)		no information available			
Air			no information available			
8.2	Exposure controls					
8.2.1.	Appropriate engineering controls					
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:		In accordance with Section 7.			
	Organisational measures to preve exposure:	nt	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposur		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment	oment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of levels of concentration in air; protective gas mask that cover entire face in case of higher levels of concentration in air.				
8.2.2.2.	Skin protection					
	·		otective gloves have to satisfy the specification of action (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min			
	Other skin protection:	footwe entire impern	every day work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.			
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equi with a filter for organic vapors, type "A" (boiling point >65°C acording to EN 14387) used when concentration levels exceed				
8.2.2.4.	Thermal hazards:	No info	ormation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Se	ction 6			



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

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

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



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

11.1 Information	on on hazard	classes as defined in	n Regulation	(EC) No 127	2/2008			
Acute toxi	city:							
Route of exposure:	Method Species			ose LD <sub>50</sub> /LC <sub>50</sub> or E		me	Results	
Oral:	No informatio available			-	No informatio available	n	-	
Dermal:	- No informatio available			-	No informatio available	n	-	
Inhalation:	halation: - No information available				No informatio available	n	-	
:								
Specific ta	T T	xicity – single expo	sure (STOT	SE):				
		pecific effects		Target organ			Note	
Oral:	No informa	tion available	No information available			<del>-</del>		
Dermal:	No informa	tion available	No information available -					
Inhalation:	No informa	tion available	No information available -					
Aspiration	hazard:	No	o informatio	n available.				
į -		i .						
Irritation a	and corrosion							
	Ехр	osure time	Species	Evaluatio	n Method		Note	
Skin corrosion/irritation	_   _			-	-	-		
Serious eye damage/irritation		-		-	-	-		
Sensitizati	on							
Skin sensitization:	-							
Respiratory sensitiz	ration: -							



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Oral exposure:	Harmful i	f swallowed.	swallowed.						
Dermal exposure	e: Harmful i	f absorbed throug	jh skin. May caι	use skin irritation	ı.				
Inhalation expos	ure: Harmful i	f inhaled. May cau	ıse respiratory t	ract irritation.					
Eye exposure:	May caus	e eye irritation.							
	·								
Repeate	ed dose toxicity (	subacute, subchro	onic, chronic)						
	Dose	Exposure time	Species	Method	Evaluation	Note			
Subacute oral	No information	on No information available	No information available	No information available	No information available	<b>–</b>			
Subacute dermal	No information	on No information available	No information available	No information available	No information available	-			
Subacute inhalation	No information	on No information available	No information available	No information available	No information available	-			
Subchronic oral	No information	on No information available	No information available	No information available	No information available	-			
Subchronic dermal	No information	on No information available	No information available	No information available	No information available	-			
Subchronic inhalation	No information	on No information available	No information available	No information available	No information available	-			
Chronic oral	No information	on No information available	No information available	No information available	No information available	-			
Chronic dermal	No information	on No information available	No information available	No information available	No information available	-			
Chronic inhalation	No information	on information available	No information available	No information available	No information available	-			



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Subacut		No information available			No information available	-		
	te dermal	No information available		No information available		-		
	te inhalation	No information available			No information available	-		
Subchro	nic oral No information available				No information available	-		
Subchro	onic dermal	No information available			No information available	_		
Subchro	onic inhalation	No information available			No information available	_		
Chronic	oral	No information available			No information available	_		
Chronic	ic dermal No information available				No information available	-		
Chronic	nic inhalation No information available				No information available	-		
		arcinogenicity; mutagenicit		•				
	Carcinogenicity	iicity:		Based on available data, the classification criteria are not met.				
	Mutagenicity <i>ii</i>	n vitro:	Bas	sed on availa	ble data, the classification c	riteria are not met.		
	Genotoxicity:		Based on available data, the classification criteria are not met.					
	Mutagenicity <i>ii</i>	า vivo:	Based on available data, the classification criteria are not met.					
	Germ cell muta	agenicity:	Based on available data, the classification criteria are not met.					
	Reproductive t	oxicity:	Based on available data, the classification criteria are not met.					
	Summary of properties:	evaluation of the CN	EMR Based on available data, the classification criteria are not met.					
11.2.	Information or	other hazards:						
11.2.1.	Endocrine disru	upting properties:						
	Based on avai	lable data, does not cont uptors.	ain	-				
11.2.2.	Other informat	ions:						
	_							

SECTION 12. 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 information available	-
Algae/aquatic p	olants	IC <sub>50</sub>	4 days	No information available	No information available	No information available	-
Other organism	15	-	-	-	-	-	-
Chronic (long-t toxicity	erm)	Dose	Exposur time	e 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 p	olants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	_
Other organism	าร	-	-	-	-	-	-
	ence ar	nd degradab idation	ility				
	De	gradation ha	lf-lives	Method	Evaluatio	n	Note
	No ir	nformation available		No information	No information available		
Marine water	INUII	nformation a	vailable	available		-	
		nformation a				-	
Fresh water	No in		vailable	available  No information	available  No informatio	n _	
Marine water Fresh water Air Soil	No in	nformation a	vailable vailable	available  No information available  No information	available  No informatio available  No informatio	n	
Fresh water Air Soil	No in	nformation and of the state of	vailable vailable	available  No information available  No information available  No information	available  No informatio available  No informatio available  No informatio	n	
Fresh water Air Soil	No in No in No in	nformation and of the state of	vailable vailable vailable	available  No information available  No information available  No information	available  No informatio available  No informatio available  No informatio	n n	Note



Adsorption / desorption

#### **SAFETY DATA SHEET**

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Produ	ct code:	OK1	-OT-X**		Date	Date of compilation: 23 Dec 2022		2022	2 Version:		4					
12.2	D:															
12.3			potential partition coeff	ficient (	log Kow	<b>)</b>										
Valu		ncentr		Н	°C		ethod		Evalu	ation		Note				
-	-	- Treerrei	-			-	ctilou		-	<u> </u>	_	11010				
	i .		i .	i_	i_											
	Bioconce	ntratio	n factor (BCF	)												
\	/alue	Species			N	Methoc	l		Evaluati	on		Note				
	ormation	No	inform	nation	No info		n		informati	on	_					
availab	ole	avail	able		availab	le		ava	ilable							
	Chronic e	cotoxi	city													
	i			Exp	osure	C			1 - 4 1	F l	_4:	Niete				
	Value		Dose	t	ime	Spe	ecies	IV	1ethod	Evalu	ation	Note				
Chroni	c toxicity or	fich	LC <sub>50</sub>	No information		No information	No information	No informa	ation	_						
CIIIOIII	c toxicity of	1 11511	LC50	avail		availa		1	ilable	availab		_ 				
Chroni	c toxicity or			No		No		No		No						
	c toxicity of cea ( <i>Daphni</i>		EC <sub>50</sub>		mation		mation		rmation	informa		_				
				avail	аріе	availa	ыые	ava	ilable	availab	ie					
12.4	Mobility i	n soil														
	<del></del>		ted distribut	ion in e	environm	nental c	ompart	ment	:S:							
	No inforn	····•														
	Surface to	ension:														
	Value		°C	С	oncentra	ition		Мє	thod			Note				
	No informati available	on i	No nformation available		informa ailable	tion	No inf availat		tion	-						



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Transpo	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note		
Soil-wat	no information available	No informati on available	No information available	No information available	-		
Water-a	ir 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.						
	based off available data, the	product doc	3 not contain any 1 b1 of	VI VD Substances.			
12.0		:					
12.6.	Endocrine disrupting propert						
	Based on available data, doe	s not contair	i endocrine disruptors.				
12.7.	Other adverse effects						
12.7.	No information available						
	NO IIIIOITIIatioii available						
SECTIO	N 13. Disposal consideration	nc					
13.1	Waste treatment methods						
13.1	waste treatment methods						
13.1.1.	Product/Packaging disposa	al:					
	Submit for disposal to the Protection.		authorized by the Minis	try of Environmental	and Nature		
13.1.2.	Waste codes/waste design	ations accord	ding to Law:				
	15 01 10*: Packaging that of substances	contains resid	dual hazardous substanc	es or is contaminate	d with hazardous		
	·						
13.1.3.	Waste treatment – relevant	information	1:				



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13.1.4.	Sewage disposal – relevant information:						
	Waste must not be disposed	d of into the sewage system.					
13.1.5.	Other disposal recommenda	ations:					
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.						
13.1.6.	Relevant Community provisi	ions:					
	-						
SECTION	I 14 TRANSPORT INFORMAT	TION					
-	Transporting/shipment by roa	nd (ADR)					
UN numb	per:	Not subject to transport regulations					
UN prope	er shipping name:	-					
Transport hazard class(es):		-					
Packing group:		-					
Environmentally hazardous:		-					
Special p	recautions for user:	-					
-	Transporting/shipment by rail	(RID)					
UN numb	oer:	Not subject to transport regulations					
UN prope	er shipping name:	-					
Transpor	t hazard class(es):	-					
Packing o	group:	-					
Environm	nentally hazardous:	-					
Special p	recautions for user:	-					
	Inland waterway transport (AD	ON)					
UN numb	oer:	Not subject to transport regulations					
UN prope	er shipping name:	-					
Transpor	t hazard class(es):	-					
Packing o	group:	-					
Environm	entally hazardous:	-					
Special p	recautions for user:	-					
-	Transporting/shipment by sea	(IMDG)					
UN numb	per:	Not subject to transport regulations					
UN prope	er shipping name:	-					
Transport hazard class(es):		-					



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

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



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		18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive
		1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;
		Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;
	Other EU regulations:	Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;
		Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;
		COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according guideline)	1999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessr	ment
	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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16.3.	1	literature references and rce of data:	-	
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classifi	catior	1	Classification procedure	
_			-	
16.5.	Rele	evant H statements (num	ber and full text)	
		226	Flammable liquid and vapour.	
	H:	314	Causes severe skin burns and eye damage.	
16.6.	Trai	ning advice:	-	
			** "X" in the product code marks different volumes (different packagings of the product)	
16.7.	Furt	her information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

<b>ANNEX: Exposure scenario</b>	resulting to	chemical	safety as	sessment

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SECTI	ON 1: Identification of	the substa	ance/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Trading name:	BIEBRIC	H SCARLET-ACI	CARLET-ACID FUCHSIN REAGENT		
	Chemical name:	-				
Ì	Catalogue number:	BSAF-O	SAF-OT-X**			
1.2.	2. Relevant identified uses of the substance or mixture and uses advi			cture and uses advised against		
	Uses:		For use with	special staining kits.		
	Uses advised against:		Only the ider	ntified uses are advised.		
	Reason why uses advised			The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska	59, Zagreb		
	Address:		Medjugorska	97		
	Address: Telephone number:	person:	Medjugorska +385 1 24099	97 39		
	Address: Telephone number: Fax no.:	person:	Medjugorska +385 1 24099 +385 1 24040	97 39		
1.4.	Address: Telephone number: Fax no.: e-mail of competent p		Medjugorska +385 1 24099 +385 1 24040 msds@biogno	97 39		
1.4.	Address: Telephone number: Fax no.: e-mail of competent positional contact:	number	Medjugorska +385 1 24099 +385 1 24040 msds@biogno	97 39		
1.4.	Address: Telephone number: Fax no.: e-mail of competent positional contact: Emergency telephone	number	Medjugorska +385 1 24099 +385 1 24040 msds@biogno	97 98 98 98 98 98 98		

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



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Trading name:	BI	T		
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	Signal word:	-			
	Hazard statements:	-			
	Precautionary statements:	-			
	Further information:	-			
2.3.	Other hazards				
	<b>Endocrine Disrupting Propertie</b>	es:			
	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. Composition/information on ingredients					
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
	-	-	Contains no hazardous substances	-	

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

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



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

SECTIO	ON 6. Accidental release meas	ures			
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (	see Section 8).			
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	-			
6.4.	Reference to other sections				
	See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment.				
	See Section 13 for informatio	n about containment.			



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

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



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EC No:	-		CAS No:	-					
DNEL									
					Inc	lustrial			
Route of		А	cute	A	Acut	e	Chro	nic	Chronic
exposure:		effe	ct local	effect	t sys	temic	effect l	ocal	effect systemic
Oral		-		_			-		-
Inhalation		-		-			-		-
Dermal		-		-					-
Critical phy	sical parar	meters: s	olubility, fla	ammability,	cor	rosivity:	-		
					Co	nsumer			
Route of		А	cute	A	Acut	e	Chro	nic	Chronic
exposure:		effe	ct local	effect	t sys	temic	effect l	ocal	effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
PNEC									
Environmer	ntal protec	ction targ	jet			PNEC			
Fresh water	•					No infor	mation availabl	е	
Freshwater	sediments	S			No information available				
Marine wat	er				No information available				
Marine sed	iments				No information available				
Food chain					No information available				
Microorgan	nisms in se	wage tre	atment		No information available				
Soil (agricu	ltural)				No information available				
Air					No information available				
8.2.	Exposure	e control	S						
8.2.1.	Appropr	iate engi	neering co	ntrols					
	measures to prevent exposure			ire :	Use the product in well ventilated rooms. Use personal protective				
	during id	dentified	uses:	equ	equipment. Do not eat, drink or smoke in the workspace.				e workspace.
	Structural measures to prevent exposure:  No information available					vailable			
					f work in order to reduce other worker's influence ocess.				
	Technica exposure		es to preve		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				



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8.2.2.	Personal protection equip	oment					
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection						
	Hand protection:		ective gloves must be according to the EU Directive 2016/425/EEC and dard EN 374.  Glove material: nitrile rubber				
			Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long as (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 information available					
8.2.3.	Environmental exposure	controls					
	Substance/mixture relate measures to prevent expe		See Section 6				
Structural measures to 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 pr exposure:	event	See Section 6				

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



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

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

SECTION 11. Toxicological information									
11.1. Information	Information on toxicological effects								
Acute tox	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 ta	arget organ toxicity – sir	ngle exposure (S	STOT SE):						
	Specific e	ffects	Target orgai	n	Note				



available

available

available

available

No information

No information

No information

Subacute

Subacute

inhalation

Subchronic oral

dermal

available

information

information

information

available

available

available

No

No

No

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available

available

available

available

No information

No information

No information

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n available

No

No

No

Trading name: BIEBRICH SCARLET-ACID FUCHSIN REAGENT						
Product code:	BSAF-OT-X**	Da	Date of compilation		c 2022	Version: 4
Oral exposure:	No informa	ation available	No infor	mation availal	ole -	
Dermal exposure		ation available		mation availab		
Inhalation expos		ation available		mation availab		
milatation expos	arc. Two innorms	ation available	TWO IIIIOI	Thation availab		
Respira	tory irritation:	N	lo information a	vailable		
Irritatio	n and corrosion					
IIIItatio	Exposure tim	ie Spec	ies Fv	aluation	Method	Note
Skin irritation:	-	-	-			
Eye irritation:	-	_	_			
<b>,</b>	<u> </u>					
Sensitiz	ation					
Dermal exposure	e: No information	available				
Inhalation exposure:	No information	available				
	:					
Sympto	ms related to the pl	nysical, chemic	al and toxicolog	jical character	istics	
Oral exposure:	No information	available				
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	Evaluation	Note
Subacute oral	No information available	No information	No information	No informatio	No informat	ion -

available

available

available

available

information

information

information

No

No

No



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



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

12.1.	Toxicity	

Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <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	_	_	_	_	-	_

#### 12.2. Persistence and degradability



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



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



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Trading name:	BIE	BRICH SCARLET-ACID	FUCHSIN REAGEN	Γ	
Product code:	BSAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTIO	N 13. Disposal considerat					
13.1.	Waste treatment method	ds				
13.1.1.	Product/Packaging dispo	osal:				
	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 – releva					
	No information available					
13.1.4.	Sewage disposal – releva	ant information:				
	Waste must not be dispo	osed of into the sewage system.				
	•					
13.1.5.	Other disposal recomme	endations:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collector authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Substitute packaging to the collectors authorized by the ministry in charge. Do not dispose of in places whigh ignition may occur.					
13.1.6.	Relevant Community pro	ovisions:				
	-					
SECTIO	N 14. Transport informati	on				
	Transporting/shipment by	road (ADR)				
UN num	nber:	Not subject to transport regulations.				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environmentally hazardous:		-				
Special p	precautions for user:	-				
	Transporting/shipment by	rail (RID)				
UN num	ıber:	Not subject to transport regulations.				
UN pror	per shipping name:	-				



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

Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN	)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (I	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (IC	CAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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



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	None	
15.2.	Chemical safety assessme	ent
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;  Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;  Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;  Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;  REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);

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				



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

amended by Regulation (EU) No. 2020/878

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16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classification		Classification procedure		
_		-		
16.5.	Relevant H statements (number 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 SOLUTION				
Product code:	BOU-OT-X**	Revision date:	22 Dec 2022	Version:	7

1.1.	Product identifier	he substance	e/mixture a	nd of the company/undertaking		
1.1.		DOLUNIC CO	DILITION			
	Trading name:	ROUIN,2 20	BOUIN'S SOLUTION			
	Chemical name:	-	-			
	Catalogue number:	BOU-OT-X**				
1.2.	Relevant identified use	es of the subs	tance or mix	cture and uses advised against		
	Uses:		Aqueous s tissue fixat	olution of picric acid, formaldehyde and acetic acid for ion.		
	Uses advised against:		Only the ic	dentified 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: B		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:	+	+385 1 2409997			
	Fax no.:	•		+385 1 2404039		
	e-mail of competent person: m		msds@biognost.hr			
	National contact: -		-			
1.4.	Emergency telephone	number				
_	National Protection an	d Rescue Dire	ectorate:	112		
	Medical information:	Medical information:		+385 1 2348 342		
	Other information:	Other information:		-		

SECTIO	SECTION 2. Hazards identification			
2.1.	Classification of the substance or mixture			
2.1.1.	Classification according to Regulation (EC) No 127	72/2008 (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		



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

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Trading name:	BOUIN'S SOLUTION				
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2.1.2.	Additional information			
	Endocrine Disrupting Prop	erties:		
	No known endocrine disrupt			
		<b>ssessment</b> : According to the results of its assessment, this substance is not a		
	PBT or a vPvB.			
	ıll text of Hazard- and EU Haza	rd-statements: see Section 16		
2.2.	Label elements			
	Product identification:	BOUIN'S SOLUTION		
	Identification number:	-		
	Authorization no.:	-		
	Hazard pictograms:	GHS08 GHS07		
	Signal word:	Danger		
	Hazard statements:	<ul> <li>H302 + H312 + H332 Harmful if swallowed, in contact with skin or if 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>		
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection.  P301+P330+P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P308 + P313 IF exposed or concerned: Get medical advice/attention.		
	Further information:	-		
2.3.	Other hazards			

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



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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	ON 4. First aid measures	
4.1.	Description of first aid measures	
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	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 effects, both acute and delayed	
	Following inhalation: se	itation 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 owsiness.



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	Following skin contact:	Irritation, redness with stinging and pain, skin cracking, rash, swelling, 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 immedia	te medical attention and special treatment needed
	-	

SECTIO	TION 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	TION 6. Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment:	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:			
	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.	For creating barriers, covering and sealing:  Sand or clay barriers.				
6.3.2.	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: 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 generation	n: 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. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incon	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:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keen away from food and drink. Keen the containers				



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	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposur	e controls/person	al protec	tion			
8.1. Control para	<u> </u>	ai protec	tion			
Substance	CAS	No	Occupational values/short	exposure limit term values	Bic	ological limit values
			ppm	mg/m³		
Formaldehyde	50-0	0-0	0.3/0.6	0.37/0.74		-
Acetic acid, glacial	64-1	9-7	10/20	25/50		-
_						
Substance - name:						
EC No: -	CAS No:	-				
DNEL						
			Industrial			
Route of exposure:	Acute		Acute	Chronic		Chronic
Route of exposure.	effect local	fect local effe		effect loca	al	effect systemic
Oral	-	-		-		-
Inhalation	0.75 mg/m³ (formaldehyde)	-		0.375 mg/m <sup>3</sup> (formaldehyde)		9 mg/m³ (formaldehyde)
Dermal	-	-		0.037 mg/cm <sup>2</sup> (formaldehyde)		240 mg/kg (formaldehyde)
Critical physical para	meters: solubility, fla	ammabili	ty, corrosivity:	-		
			Consumer			
Pouto of ovnocura	Acute		Acute	Chronic		Chronic
Route of exposure:	effect local	effe	ect systemic	effect loca	al	effect systemic
Oral	-	-		-		4.1 mg/kg (formaldehyde)



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					T	•	Γ	•
Inhalation	ı	-		0.1 mg/m <sup>3</sup> 3.2 mg/m <sup>3</sup> (formaldehyde) (formaldehy				
Dermal		-	-		0.012 mg/cm <sup>2</sup> (formaldehyde)		120 mg/ (formald	-
PNEC								
Environme	ental prote	ection target		PNEC				
Fresh wate	er			0.44 mg/	(I (formaldehyde)			
Freshwate	r sedimer	its		2.3 mg/k	g (formaldehyde)			
Marine wa	ater			0.44 mg/	(l (formaldehyde)			
Marine se	diments			2.3 mg/kg (formaldehyde)				
Food chai	n			No information available				
Microorga	anisms in s	sewage treatment		0.19 mg/l (formaldehyde)				
Soil (agric	ultural)			0.2 mg/k	g (formaldehyde)			
Air				No infor	mation available			
	:							
8.2.	Exposu	ire controls						
8.2.1.	Appro	oriate engineering cor	ntrols					
		nce/mixture related m t exposure during ide		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				•
	Structu	ıral measures to preve	ent exposure:	No info	mation available			
	Organi exposu	sational measures to ire:	prevent		ation of work in o e during work pro		reduce otl	ner worker's
	Techni	cal measures to preve	Secure proper workspace ventilation in order to keep				•	
8.2.2.	Person	al protection equipme	ent					
8.2.2.1.	Eye an	d face protection:	Safety glasses that stick to face (EN 166) or visor in case of lov				at covers the	
8.2.2.2.	Skin pr	otection						



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Trading name:	BOUIN'S SOLUTION					
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	Hand protection:	Protective gloves must be according to the Directive 89/686/EEC and standard EN 374.  Full contact:  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min  Splash contact:  Gloves material: polychloroprene  Glove thickness: 0.65 mm  Time until perforation: > 240 min
	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.	Respiratory protection:	Full face mask (EN 136) or half mask (EN 140) equipped with a recommended "ABEK" (EN 14387) filter used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

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

SECTIO	SECTION 10.: Stability and reactivity					
10.1.	Reactivity:	See subsections 10.3 through 10.5.				
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).				
10.3.	Possibility of hazardous reactions:	Explosion hazard when in contact with: nitric acid, hydrogen peroxide, nitromethane, acids, phenol, nitrogen dioxide 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.				
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. Toxicological information							
11.1. Information	11.1. Information on toxicological effects						
Acute toxic	Acute toxicity:						
Route of exposure:	Method	Species	Dose $LD_{50}/LC_{50}$ or $ATE_{mix}$	Exposure time	Results		



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Trading name:			BOUIN'	S SOLUTION			
Product code:	BOU-OT-X**	Revisi	ion date:	22 Dec 2022 V		on:	7
Oral exposure:	No information available	rat	LD <sub>50</sub>	No informati available	on		200 mg/kg maldehyde)
Dermal:	No information available	rabbit	LD <sub>50</sub>	No informati available	on	>2	270 mg/kg maldehyde)
Inhalation exposure:	No information available	rat	LC <sub>50</sub>	4 h	0.	.58 mg/	'l (formaldehyde)
Specific ta	orget organ toxicity –	single exposui	re (STOT SE	·):			
	Sp	ecific effects		Target c	rgan		Note
Oral exposure:	No information av	ailable		-		-	
Dermal exposure:	No information av	ailable		-		-	
Inhalation exposure:	No information av	ailable		-		-	
Aspiration	hazard:	poss	ible respira	tory system irritat	tion.		
Irritation a	and corrosion						
	Expos	ure time	S p e c i e s	Evaluation	Me	thod	Note
Skin corrosion/irrita	ation No informa	ition available			-		Causes skin irritation.
Serious irritation to	eyes: No informa	ition available			-		Causes serious eye irritation.
Sensitizati	on						
Dermal exposure:	May cause allergic	skin reaction.					
Inhalation exposure:	Allergic persons m		ation.				
Symptom	s related to the physi	cal, chemical a	nd toxicolo	ogical characterist	ics		
Oral exposure:		an cause sever		mouth and throa		anger o	f esophagus and
Dermal exposure:	Depending on c		•	re time, redness a	•	nied by	sensation of



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Inhalation exposure: and			of breath. Inl	•	time, it may lea use formation of		_
Eye exposure:		Causes serious nazard.	eye damage	e. Fumes may ca	use lacrimal irrit	ation (tearing), b	lindness
Repeate	ed dose	toxicity (subac	ute, subchro	onic, chronic)			
; ·		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availal	information ole	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 availak	information ole	No informati on available	No information available	No information available	No information available	No information available
Subchronic oral	No availal	information ole	No informati on available	No information available	No information available	No information available	No information available
Subchronic dermal	No availat	information ole	No informati on available	No information available	No information available	No information available	No information available
Subchronic inhalation	No availal	information ole	No informati on available	No information available	No information available	No information available	No information available
Chronic oral	No availal	information ole	No informati on available	No information available	No information available	No information available	No information available
Chronic dermal	No availat	information ole	No informati on available	No information available	No information available	No information available	No information available



Trading name:

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**BOUIN'S SOLUTION** 

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Chronic inhalation	No information available	No informati on available	formati information information information available available		No information available	No information available		
Specific	c target organ toxicity -	- repeated e	exposure (STOT	RE)·				
	Specific effe		Aposare (STOT	Target organ		Note		
Subacute oral	No information availa		No informa	ation available		No information available		
Subacute dermal	No information available		No informa	ation available		No information available		
Subacute inhalation	No information available		No informa	ation available		No information available		
Subchronic oral	No information available		No informa	ation available		No information available		
Subchronic dermal	No information available		No informa	ation available		No information available		
Subchronic inhalation	No information available		No informa	ation available		No information available		
Chronic oral	ronic oral No information available		No informa	ation available		No information available		
Chronic dermal	No information available		No informa	ation available		No information available		
Chronic inhalation	No information availa	able	No informa	No information available				
CMR et	ffects (carcinogenicity; ı	mutagenicit	y; reproductive	toxicity)				
	ogenicity:			to have carcinog	enic potential	for humans.		
Mutage	enicity <i>in vitro</i> :		No inform	nation available.				
Genoto	oxicity:		No inform	No information available.				
Mutage	enicity <i>in vivo</i> :		No inform	nation available.				
Germ c	ell mutagenicity:		Suspected	l of causing gene	tic defects.			
Reprod	luctive toxicity:		No inform	nation available.				
Summa proper	•	of the CN	MR No inform	nation available.				
11.2. Informa	ation on other hazards:							
11.2.1. Endocr	ine disrupting properti	es:						



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	No known endocrine disrupting properties that affect human health.
11.2.2.	Other informations:
	-

12.1. Toxic	ity									
Acute (short-toxicity	erm)	Dose	Exposu time	re	Species	Meth	od	Evaluation		Note
Fish		LC <sub>50</sub>	96 hour	S	Pimephales promelas	_		24.1 – 41 mg/l (formaldehyde)	-	
Crustacea:		EC <sub>50</sub>	48 hour	S	water flea (Daphnia magna)	-		2 mg/l (formaldehyde)	-	
Algae/aquatic	plants	IC <sub>50</sub>	72 hour	S	algae	-		2.5 mg/l (formaldehyde)	-	
Other organisi	ms	-	-		-	-		-	-	
Chronic (long- toxicity	term)	Dose	Exposu time	re	Species	Meth	od	Evaluation		Note
Fish		LC <sub>50</sub>	96 hour	S	-	-		No information available	-	
Crustacea:		EC <sub>50</sub>	48 hour	S	-	-		No information available	-	
Algae/aquatic	plants	IC <sub>50</sub>	72 hours		-	-		No information available	-	
Other organisi	ns	-	-		-	-		No information available	-	
		and degradal	oility							
	Deg	gradation ha	f-lives		Method			Evaluation		Note
Marine water	No in	formation av	ailable	No	information a	vailable	١	No information available		-
Fresh water	No in	formation av	ailable	No	information a	vailable	١	No information available		-
Air	No in	formation av	ailable	No	information a	vailable		No information available		-
Soil	No in	formation av	ailable	No	information a	vailable	١	No information available		-
Biode	gradati	ion								
% Degradatio	-	Time (da	ys)		Method		E	valuation	Note	<u> </u>
No informatio available		information	•		lo information vailable			ormation -		



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	1										
12.3.			ative potenti								
	Partitic	n co	efficient: n-c	ctanol/	water (log	Kow):					
Valu	ue	Con	centration	рН	°C	M	ethod	Eva	luation		Note
No informa availabl	ation	No ir availa	nformation able	-	-	No info	ormation le	No info availabl	rmation e	-	
	Biocon	centr	ation factor	(BCF)							
V	'alue		Spec			Method	d	Evalua	ation		Note
	rmation		No informat available			nformatic lable		No informa available		-	
	Chroni		tovicity								
	Chroni	c eco	toxicity		-						
	Value	<b>;</b>	Do	se	Exposure time	Spe	cies	Method	Evaluati	on	Note
Chronic	toxicity	on fi	sh LC <sub>50</sub>	i	No nformatio n available	No informa availab	1	No informati on available	No informat available		-
	toxicity ea (Daph		EC <sub>50</sub>	i r	No nformatio n available	No informa availab	1	No informati on available	No informat available		-
12.4.	Mobilit	ty in a	rail								
12.4.	1	•	redicted dist	ribution	a in anviro	nmontal	comparti	monts:			
	Known	or p	redicted dist	ributior	i in enviro	nmentar	Lomparu	ments.			
	Surface	e tens	sion:								
	Val	ue	°C		Concer	tration		Method			Note
	No inform availab		No informat available		No infor available		No info	ormation ble	-		



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	Adsorption / desorption		,		,
Transpo	rt A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wat	er No information available	No information available	No information available	No information available	-
Water-a	ir No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB asse	essment			
	No information available				
12.6.	Endocrine disrupting proper	ties			
	The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulat		
•					
12.7.	Other adverse effects				
	No information available				
SECTION	N 13. Disposal consideratio				
13.1.	Waste treatment methods	115			
13.1.	waste treatment methods				
13.1.1.	Product/Packaging dispos	al:			
	Submit for disposal to the Protection.	legal person autho	rized by the Ministr	y of Environmental a	and Nature
13.1.2.	Waste codes/waste design	nations according to	o Law:		
	15 01 10*: packaging that substances	contains residual h	azardous substance:	s or is contaminated	l with hazardous
13.1.3.	Waste treatment – relevan	t information:			
13.1.5.	No information available	t imormation.			
13.1.4.	Sewage disposal – relevan	t information:			



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13.1.5.	Other disposal recomme	ndations:
	authorized by the minist	oduct'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.
13.1.6.	Relevant Community pro	ovisions:
	-	
SECTIO	N 14. Transport informati	on
	Transporting/shipment by	
UN num		Not subject to marking regulations.
	er shipping name:	-
	rt hazard class(es):	-
Packing	-	-
Environr	nentally hazardous:	-
	precautions for user:	-
<del>-</del>	Transporting/shipment by	rail (RID)
UN num	ber:	Not subject to marking 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 marking regulations.
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	nentally hazardous:	-
Special p	precautions for user:	-
	Transporting/shipment by	sea (IMDG)
UN num	ber:	Not subject to marking regulations.
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environn	nentally hazardous:	-



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Special precautions for user:	-
Transport in bulk according t of MARPOL 73/78 and the IBC	_
Transporting/shipme	nt by air (ICAO-TI/IATA-DGR)
UN number:	3334
UN proper shipping name:	Aviation regulated liquid, n.o.s. (formaldehyde)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	None
Special precautions for user:	-
FILTINGE INTORMATION:	rmaldehyde solutions, nonflammable, containing less than 25% of formaldehyde do t adhere to the ADR regulations.

Safety, health and environmental 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 product and amending Directive 1999/13/EC;  Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety	
	of workers from the risks related to chemical agents at work;  Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 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;  REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);	
	EU regulations Authorization and/or restr Authorizations: Restrictions:	



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	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessment	
	-	

SECTIO	ON 16	Other information				
16.1.	Indi	cation of changes:	-			
16.2.	Abb	previations 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.		literature references and rce of data:	-			
16.4.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classifi	icatior	according to CLP	Classification procedure			
_			-			
16.5.	Rele	evant H statements (num	per 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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		"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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SECT	ION 1: Identification of	the substance	/mixture	e and of the company/undertaking			
1.1	Product identifier						
	Trading name:	FAST GREEN	FAST GREEN F.C.F. REAGENT				
	Chemical name:	-	-				
	Catalogue number:	FGR-OT-X**	:				
1.2	Relevant identified use	es of the subst	ance or n	nixture and uses advised against			
	Uses:			stain used with Masson-Goldner Trichrome and Paraldehyde staining kits.			
	Uses advised against:		Only the	e identified uses are advised.			
	Reason why uses advi	sed against:	medical	duct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier	of the safety of	data shee	t			
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997				
	Telefax.:		+385 1 2404039				
	e-mail of competent p	erson:	msds@biognost.hr				
	National contact:		-				
1.4	Emergency telephone	number					
	National Protection ar	nd Rescue Dire	ctorate:	112			
	Medical information:			-			
	Other information:			-			

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance of	or mixture				
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and catego	ory code:		Hazard statements*:		
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification: FAST GREEN F.C.F. REAGENT					
	Identification number: -					
	Authorization number:	-				



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	Hazard pictograms:	-
	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	The product has no other know	n specific hazards for human or environment.
	Results of PBT and vPvB assessr PBT or vPvB substances.	ment: Based on available data, the product does not contain any
	Endocrine disrupting property:	Based on available data, does not contain endocrine disruptors.

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

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



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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	ndication of any immediate medical attention and special treatment needed			
	-				

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

SECTIO	ON 6. Accidental release measur	res				
6.1	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment:	ective equipment: Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those member without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in ca (see Section 8).	se of inadequate ventilation use adequate airways protective equipment				
6.2	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3	Methods and material for conta	inment and cleaning up				



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

SECTIO	ON 7. Handling and storage			
7.1	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.	
	Measures to prevent aerosol and dust generatio	n:	Secure proper ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
	Other measures:		Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. The	oroughly was	sh hands after work and before eating.	
7.2	Conditions for safe storage, including any incom	patibilities		
	Technical measures and storage conditions:	well ventil	ated storage rooms at temperatures ranging	
	Packaging materials:	Manufactu	ırer's original packaging.	
	Requirements for storage rooms and vessels:		•	
	Advices for storage equipment:	and waterways.  Protect against electrostatic charges.  pace. Thoroughly wash hands after work and before eating.  ny incompatibilities  Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures rangi from 15 to 25 °C. Protect from heat and direct sunlig Manufacturer's original packaging.  Keep away from food and drink. Keep the containers		



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Produc	t code:	FGR-OT	-X**		Date c	of compila	ation:	23 De	c 2022	Version:	4
	Further inf	formation	mation 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 er	nd use(s)						,			
	Recomme	ommendations:				-					
	Industrial	sector specific solutions:				-					
SECTIO	N 8. Expos	ure contro	ols/perso	nal prot	ection						
8.1	Control pa	rameters				T			Ī		
Substance CAS No			Occupational exposure limit values/short term values  ppm mg/m³		Biolo	Biological limit values					
				-		<u>-</u>	-				
						<u>I</u>			<u> </u>		
Substan	ice name:	-									
EC No:		-	CAS No	: -							
DNEL											
					Inc	dustrial					
Route		Acu			cute	_	Chro			Chronic	
<b>exposu</b> Oral	re.	effect	iocai	-	systemi	C	effect	iocai	_	effect systemic	
Inhalati	on										
Dermal	011			_		_			_		
	physical par	rameters: s	olubility,	flammab	ility, cor	rosivity:	-				
			<u>, , , , , , , , , , , , , , , , , , , </u>			nsumer	i				
Route o	of	Acı	ıte	Ad	cute		Chro	nic		Chronic	
exposu	re:	effect	local	effect	systemi	С	effect	local		effect systemic	
Oral		-		-		-			-		
Inhalati	on	-		-		-			-		
Dermal		-		-		-			-		
PNEC					1						
	mental prot	ection tar	get			PNEC					
Fresh w						no inforn					
Freshwater sediments				no information available							



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Marine w	ater		no information available
Marine se			no information available
Food cha	in		no information available
Microorg	anisms in sewage treatment		no information available
Soil (agrid			no information available
Air	Air		no information available
8.2	Exposure controls		
8.2.1.	Appropriate engineering cont	rols	
	Substance/mixture related me prevent exposure during iden		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.
Structural measures to prevent exposure:			In accordance with Section 7.
	Organisational measures to prescribe exposure:	revent	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to preven	t exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.
8.2.2.	Personal protection equipmer	nt	
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.
8.2.2.2.	Skin protection		
	Hand protection:		otective gloves have to satisfy the specification of action (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min
	Other skin protection:	footwe entire imperr	every day work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No info	ormation available
8.2.3.	Environmental exposure contr	rols	



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Trading name:	FAST GREEN F.C.F. REAGENT					
Product code:	FGR-OT-X**	Date of compilation: 23 Dec 2022	2 V	ersion:	4	

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

.1	Information on basic physical and	chemical properties		
		Value	Method	
	Physical state:	liquid	No information available	
	Colour:	green	No information available	
	Odour/odour threshold:	mild acetic acid like/no information available	No information available	
	Melting point / freezing point:	No information available	No information available	
	Boiling point or initial boiling point and boiling range:	No information available	potentiometric measurement	
	Flammability:	No information available	No information available	
	Lover and upper explosion limit:	No information available	No information available	
	Flash point:	No information available	No information available	
	Auto-ignition temperature:	No information available	No information available	
	Decomposition temperature:	No information available	No information available	
	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**



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

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

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Product code:	FGR-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

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

		rmation						
11.1 Inform	ation on hazard o	lasses as defined	in Regu	ation (EC) No	o 1272/2	.008		
Acute	toxicity:							
Route of exposure:	Method	Species	Do	se LD <sub>50</sub> /LC <sub>50</sub> ATE <sub>mix</sub>	or	Exposure ti	me	Results
Oral:	-	No information available		-		o informatio ailable	n	-
Dermal:	-	No information available	1	-		o informatio ailable	n	-
Inhalation:	-	No information available	l	_		informatio ailable	n	-
Specifi	ic target organ to	xicity – single exp	osure (S	TOT SE):				
		pecific effects	Target organ			ın	Note	
Oral:	No informa	tion available	No information available			lable	_	
Dermal:	No informa	tion available	No information available -					
Inhalation:	No informa	tion available	No information available			lable	_	
Aspira	tion hazard:	N	No inforr	nation availa	ble.			
		;						
Irritatio	on and corrosion					:		
	Ехро	osure time	Speci	es Eva	luation	Method		Note
Skin corrosion/irritat	tion:	-		-		-	-	
Serious eye damage/irritatio	on -	-		-		-	-	
Sensiti	zation							
Skin sensitizatio	1							



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Product code:	FGR-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

Sympto	ms related to the ph	nysical, chemic	al and toxicolog	ical characterist	ics	
Oral exposure:	No informati	on available.				
Dermal exposure	: No informati	on available.				
Inhalation expos	ure: No informati	on available.				
Eye exposure:	No informati	on available.				
-						
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)		1	1
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal			No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	<b>-</b>
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	<b>-</b>
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-



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Trading name:		FAST GREEN F.C.F. REAGENT				
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		Specific effects		Target organ	Note			
Subacute oral No inform		No information available		No information available	-			
Subacute dermal No information available				No information available	-			
Subacu	te inhalation	No information available		No information available	-			
Subchro	onic oral	No information available		No information available	-			
Subchro	onic dermal	No information available		No information available	-			
Subchro	onic inhalation	No information available		No information available	-			
Chronic	oral	No information available		No information available	-			
Chronic	dermal	No information available		No information available	-			
Chronic	inhalation	No information available		No information available	-			
	CMR effects (c	arcinogenicity; mutagenicity; re	productive t	oxicity)				
	Carcinogenicit	y:	Based on a met.	available data, the classificat	tion criteria are not			
	Mutagenicity <i>in vitro</i> :  Genotoxicity:		Based on available data, the classification criteria are not met.  Based on available data, the classification criteria are not met.					
	Mutagenicity i	n vivo:	Based on available data, the classification criteria are not met.					
	Germ cell muta	agenicity:	Based on available data, the classification criteria are not met.					
	Reproductive t	oxicity:	Based on available data, the classification criteria are not met.					
	Summary of properties:	evaluation of the CMR	Based on a met.	on criteria are not				
11.2.	Information or	n other hazards:	other hazards:					
11.2.1.	Endocrine disr	upting properties:						
	Based on avai	ilable data, does not contain uptors.	-					
11.2.2.	Other informat	tions:						
	-							

SECTION 1	12. Ecologi	ical inf	ormation
-----------	-------------	----------	----------

12.1 Toxicity



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Trading name:		FAST GREEN F.C.F. REAGENT				
Product code:	FGR-OT-X**	Date of compilation: 23 Dec 2022	Version:	4		

Product code:	F	GR-OT-X**		Date of compila	tion:	23 Dec	2022	Version: 4
		:	:	:	:			:
Acute (short-ter toxicity	m)	Dose	Exposur time	e Species	Me	ethod	Evaluati	on Note
Fish		LC <sub>50</sub>	96 hours	No information available	No inforr availa	mation able	No informat available	
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No inforr availa	mation able	No informat available	
Algae/aquatic plants		IC <sub>50</sub>	4 days	No information available	No inforr availa	mation able	No informat available	
Other organism	S	-	-	-	-		-	-
Chronic (long-te	erm)	Dose	Exposur time	e Species	Me	ethod	Evaluati	on Note
Fish		LC <sub>50</sub>	96 hours	No information available	No inforr availa	mation able	No informat available	
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No inforr availa	mation able	No informat available	
Algae/aquatic p	lants	IC <sub>50</sub>	72 hours	No information available	No inforr availa	mation able	No informat available	
Other organisms -		-	-	-	-		-	-
12.2 Persiste	ence a	ınd degradal	oility					
Abiotic	degr	adation						
	De	egradation h	alf-lives	Method		Evaluatio	on	Note
Marine water	No i	nformation a	vailable	No information available		No information available		
Fresh water No information available		vailable	No information	No in	No information			

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



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Tradin	ig name:				F	AST GI	REEN F	.C.F	. REAGEI	NT			
Produ	ct code:	FGR-C	OT-X**		Date	e of co	mpilati	on:	23 Dec	2022		Version:	4
No information No information available available		No inf availab	ormatic ole		No ir availa	nformation able	n	No inf availa	formation ble				
12.3	Bioaccum	ulative p	otential										
		•	tition coeff	icient (	log Kow	')							
Valu	ie Coi	ncentrat	ion p	Н	°C	Мє	ethod		Evalu	ation		Note	
-	-		-		-	-			-		_		
	1	tration f	factor (BCF)					¥					
	Value		Species			Method		Evaluation		Note			
No info	No information No available available		inform ole	nation No information available		n	No information available		-				
					2						:		
	Chronic ed	otoxicity	у										
	Value		Dose		osure ime	Spe	ecies	٨	1ethod	Eval	uation	Note	!
Chroni	c toxicity on	fish	LC <sub>50</sub>	No infor availa	mation able	No inforr availa	nation ble		ormation ilable	No inforn availa		-	
Chroni	c toxicity on			No		No		No		No			
	cea ( <i>Daphnia</i>	)	EC <sub>50</sub>	infor availa	mation able	inforr availa	nation ble	1	ormation ilable	inforn availa		-	
12.4	Mobility in	soil											
		•	ed distributi	on in e	environm	nental c	ompart	ment	ts:				
	No inform		ailable										
	Surface te	nsion:											
	Value		°C	C	oncentra	ation		Me	ethod			Note	
	No informatio available		ormation ailable		informa iilable	ntion	No inf availab		ation	-			



Trading name:

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maani	g manne.			.,,,,,,	JINLLIN I .C.I				
Product code: FGR-OT-X		FGR-OT-X**		Date of compilation: 2			)22	Version:	
			·					•	·
	Adsorpti	on / desorption							
Transp	ort	A/D coefficient Henry's constant	log k	(ow E	vaporation ra	ate Me	ethod	Note	
Soil-wa	nter No ava	informatio ilable	n No informa available	tion	o informatior railable	n No info availabl	ormation le	-	
Water-	air No ava	informatio ilable	n No informa available	tion	o informatior railable	n No info availabl	ormation le	-	
Soil-air	. No	informatio ilable	n No informa available	tion	o informatior ailable	n No info availabl	ormation le	-	
12.5	Based or	of PBT and vPvB as:	e product d	oes not con	itain any PBT	or vPvB subs	itances.		
12.6.		ne disrupting prope		ain anda:	no diamente :				
	pased Of	n available data, do	es not cont	airi eridocri	ne disruptors	<b>).</b>			
12.7. Other adverse effects									
12.7.	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:

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 recommenda	itions:				
	authorized by the ministry ir	act's remains into the sewage system. Submit the remains to the collectors or charge. Do not dispose of the packaging into the sewage system. Submit ors authorized by the ministry in charge.				
13.1.6.	Relevant Community provisi	ons:				
	-					
SECTION	14. Transport information					
-	Transporting/shipment by roa	d (ADR)				
UN numb	per:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	t hazard class(es):	-				
Packing o	group:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
-	Transporting/shipment by rail	(RID)				
UN numb	per:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	t hazard class(es):	-				
Packing g	group:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
	nland waterway transport (AD	DN)				
UN numb	per:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	t hazard class(es):	-				
Packing g	group:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
	Transporting/shipment by sea	(IMDG)				
UN numb	per:	Not subject to transport regulations				
UN prope	er shipping name:	-				



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

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



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	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of
Other EU regulations:	18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;
	COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
	REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
Information according guideline)	1999/13/EC about limitation of emissions of volatile organic compounds (VOC-
National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2 Chemical safety assess	ment
None	

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



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Product code:	FGR-OT-X**	Date of compilation: 23 Dec 2022	Version:	4

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

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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

1.1.	Product identifier				
	Trading name:	FERRI REAGENT, WEIGERT B			
	Chemical name:	-			
	Catalogue number:	FR-OT-X**			
1.2.	Relevant identified us	es of the subst	tance or mix	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 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: Bi		ioGnost Ltd.		
	Address: M		Лedjugorska 59, Zagreb		
	Telephone number: +3		385 1 2409997		
	Fax no.: +:		+385 1 2404039		
	e-mail of competent person: mg		msds@biognost.hr		
	National contact: -				
1.4.	Emergency telephone number				
	National Protection and Rescue Dire		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 Regulation (EC) No 1272/2008 (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	atements: see Se	ection 16		
2.2.	Classification according to EC Directive Nr. 1272/2008 CLP)				
	Product identification:	FERRI REAGEN	NT, WEIGERT B		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Properties	s:
	No known endocrine disrupting p	properties
	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is no	
	PBT or a vPvB.	

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS						
CAS/ EC/ Index 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	SECTION 4 FIRST AID MEASURES				
4.1.	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 effects, both acute and delayed				



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		Inhelation of large amounts of vanors in inadequately ventilated norimeter			
	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. Longterm 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				
	-				

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).					



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

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

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 generation	n: Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	-			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	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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Tradir	ng name:				FER	RI REAG	ENT, WEIGER	T B		
Produ	ıct code:	FR-OT-	<b>X</b> **	R	evisio	n date:	21 Dec 202	2 Ver	rsion:	5
Further information on storage conditions:				ns:	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 e	nd use(s)	e(s)							
	Recomm	endations:				-				
	Industrial	sector spe	cific solutio	ns:		-				
	ON 8 EXPO		TROLS/PER	RSONAL	PROTI	ECTION				
8.1.	Control p	arameters			I			I		
	Culturation of	_	CAC	NI -			exposure limit term values	D:	. 1	Santa and bank
Substance		CAS	CAS No		opm	mg/m <sup>3</sup>	BIC	Biological limit va		
Hvdro	gen chloride	<u> </u>	7647-01-0		1	5/10	8/15			
							-, -			
Substa	-									
EC No:	:		CAS No:	-						
DNEL										
					Ind	ustrial				
Route expos			Acute ect local	effe	Acute ffect systemic		Chronic effect local		eff	Chronic ect systemic
Oral		-		-			-		-	
Inhalat	tion	-		-			-		-	
Derma	al	-		-			-		-	
Critica	l physical pa	rameters: s	solubility, fla	mmabilit	ty, corr	osivity:	-			
					Cor	sumer			1	
		Acute fect systemic		Chronic effect local		eff	Chronic ect systemic			
Oral	Oral				-		-			
Inhalat	Inhalation				-		-			
Dermal						-		-		
PNEC										
Enviro	nmental pro	tection tar	get			PNEC				
Fresh v	water					No information available				
Freshw	vater sedime	ents				No information available				
Marine water				No information available						



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

Marine sediments				No information available		
Food chai	n			No information available		
Microorganisms in sewage treatment				No information available		
Soil (agricultural)				No information available		
Air				No information available		
8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent expoduring identified uses:			product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.		
	Structural measures to pre exposure:	event	No info	rmation available		
	prevent exposure: d Technical measures to prevent S		_	zation of work in order to reduce other worker's influence work process.		
			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:		Safety o	glasses that stick to face (preventing splashing) (EN 166) or		
8.2.2.2.	Skin protection					
	Hand protection:	standard EN Glove Glove		es must be according to the EU Directive 2016/425/EEC and 4.  naterial: nitrile rubber  hickness: ≥0.50 mm  hrough time: >480 min		
	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.	Respiratory protection:	filter f	or organi	ace mask (EN 136) or half mask (EN 140) equipped with a c vapors, type "A" (boiling point >65°C) acording to EN nen concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation	available		
8.2.3.	Environmental exposure of	ontrols				
	Substance/mixture related measures to prevent expo		See Sec	rtion 6		
	Structural measures to pre exposure:	event	Use modern equipment.			
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.			



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

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

.1.	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

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

Hazardous decomposition products: No information available. 10.6.

SECTION 11 TOXIC	COLOGICAL INFORMA	ATION				
11.1. Informatio	n on hazard classes as	defined in Regu	lation (EC) No 12	72/2008		
Acute toxi	city:					
Route of exposure:	Method	Species	Effective dose $LD_{50}/LC_{50}$ or $ATE_{mixture}$	Exposure t	ime 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 – si	ngle exposure (S	TOT SE):			
	Specifi	c effects	Targe	torgan	Note	
Oral exposure: No informa		available	No informati	on available	-	
Dermal exposure:	No information a	available	vailable No information a		-	
Inhalation exposure	e: No information a	available	No information available -		_	
Respirator	y irritation:	No inforr	nation available			
Irritation a	nd corrosion					
:	Exposure time	Species	Evaluation	Method	Note	
Skin irritation:	-	rabbit	-			
Eye irritation:	-	rabbit	-	-		
Sensitization	on					
Dermal exposure:	No information avail	able				
Inhalation exposure:	No information avail	able				
Compate	rolated to the shurt-	l chamical and t	ovicelegical share	octorictics		
Oral exposure:	Swallowing may constant sensation; higher land concentration may	ause irritation of evels of concent g, aspiration caus	mucosa, tingling ration may cause ses coughing, diff	sensation in th	ninal pain and vomitin	



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

Darmal Avnostira.			tation. After short exposure, resorption effects are not likely. Long-term exposure se drying, cracking and tingling sensation of skin.						
Inhalation expos	ure:		-	large amounts of vapors in inadequately ventilated perimeter may cause eezing, headache and nausea.					
Eye exposure:		Direct eye co sensation.	ontact may cau	se slight to mo	oderate irritation,	lacrimation and	burning		
Repeate	ed dos	se toxicity (sub	acute, subchro	onic, chronic)					
1		Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral		information lable	No information available	No information available	No information available	No information available	-		
Subacute dermal		information lable	No information available	No information available	No information available	No information available	-		
Subacute inhalation		information lable	No information available	No information available	No information available	No information available	-		
Subchronic oral		information lable	No information available	No information available	No information available	No information available	-		
Subchronic dermal		information lable	No information available	No information available	No information available	No information available	-		
Subchronic inhalation		information ilable	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	et organ tovicit	v – reneated e	xposure (STOT	RE)·				
Specific	tai ge		pecific effects		Target orga	an	Note		
Subacute oral			ation available	N1 -	information avai				



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Subacu	te dermal	No informatio	n available	No information available	_		
Subacu	te inhalation	No informatio	n available	No information available	-		
Subchronic oral No information			n available	No information available	-		
Subchro	onic dermal	No informatio	n available	No information available	-		
Subchro	onic inhalation	No informatio	n available	No information available	-		
Chronic	oral	No informatio	n available	No information available	-		
Chronic	dermal	No informatio	n available	No information available	-		
Chronic	inhalation	No informatio	n available	No information available	-		
				roductive toxicity)	prein aganis offacts		
	Carcinogenicity			s on test animals did not indicate ca			
	Mutagenicity i	n-vitro:	Current <i>in vitro</i> tests did not indicate mutagenic effects.  No information available  Current <i>in vivo</i> tests did not indicate mutagenic effects.				
	Genotoxicity:	n vivo:					
	Mutagenicity <i>in-vivo</i> :  Germ cell mutagenicity:		No information available				
	Reproductive t		No toxicity on reproductive organs was determined in reproductive organs.				
	Summary of ev	valuation of the	CMR properties:	-			
11.2	Information or	n other hazards:					
11.2.1.	Endocrine disr	upting propertie	s:				
	contain comp have endocring according to Commission D 2017/2100 or	oce/mixture do conents considue ne disrupting p REACH Article Delegated regula Commission R 5 at levels of	oroperties 57(f) or tion (EU) egulation				
			<u> </u>				
11.2.2.	Other informat	tions:					

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



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

Fish	LC <sub>50</sub>	96 hours	-	No information available	-	-
Crustacea:	EC <sub>50</sub>	48 hours	-	No information available	-	-
Algae/aquatic plants	IC <sub>50</sub>	8 days	-	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	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 available							

#### 12.3. Bioaccumulative potential



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Tradin	rading name: FERRI REAGENT, WEIGERT B											
Produ	ct code:	FR-OT	Γ-X**		Rev	ision d	ate:	21 De	ec 2022	Ve	ersion:	5
	i		nt: n-octar									
Valu		oncentrat		рН	°C		ethod		Evalua			Note
-	No avai	inform lable	ation -		_	No info			No inform Ivailable	nation	-	
	Bioconce	ntration f	actor (BC	F)								
١	<b>V</b> alue		Species			Method	l		Evaluation	on		Note
No info availab	ormation ble	No availab		mation	No infa	ormatic ole	on	No i avail	nformation	on	No info availabl	rmation le
	Chronic 6	ecotoxicit	y									
	Value		Dose		Exposure time		ecies	M	ethod	Ev	aluation	Note
Chroni	c toxicity o	n fish	LC <sub>50</sub>	No infor avail	mation able	No infori availa	mation able	No infor avail	rmation lable	No information available		-
	c toxicity o		EC <sub>50</sub>	No infor avail	mation able	No infori availa	mation able	No infor avail	rmation lable	No in availa	formation ble	-
12.4.	Mobility	in soil										
	1		d distribu	ition in 4	nvironn	nental c	ompar	tmanta				
		nation av				incintal C	.ompai	ciits	·			
	Surface t		anabic									
	Value		°C	С	oncentra	ation		Met	thod			Note
	No No No information				formation							
	Adsorption	on / deso	rption									
Transp	ort	A/D coef	ficient	lo	og Kow	Εν	/aporati	ion rat	e	Method	ł	Note



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Trading name:	FERRI REAGENT, WEIGERT B				
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						<u> </u>			
Soil-wa	ter No available	information	No information available	No information available	No information available	-			
Water-a	air No available	information	No information available	No information available	No information available	-			
Soil-air	ir No information No information available No information available No information available -								
12.5.	Results of PBT	and vPvB asses	ssment						
	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 disru	upting properti	es						
	according to R	EACH Article 5	•	n Delegated regula	to have endocrine d tion (EU) 2017/2100	isrupting properties or Commission			
12.7.	Other adverse	effects							
	No information	n available							
SECTIO	N 13 DISPOSAL	L CONSIDERA	ΓIONS						
13.1.	Waste treatm	nent methods							
	·								
13.1.1.	Product/Pack	kaging disposa	l:						
	Submit for di Protection.	isposal to the l	egal person autho	rized by the Minist	ry of Environmental	and Nature			
13.1.2.			tions according to	Law:					
	No information available								
13.1.3.	3. Waste treatment – relevant information:								
	No informati	on available							
	:								
13.1.4.	Sewage dispo	osal – relevant	information:						
	Waste must r	not be dispose	d of into the sewa	ge system.					
	:								
13.1.5.	Other disposal recommendations:								



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

	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 pro	ovisions:			
	-				
SECTIO	N 14 TRANSPORT INFORI	MATION			
	Transporting/shipment by	road (ADR)			
UN num	ber:	Not subject to transport regulations.			
UN prop	er shipping name:	_			
Transpo	rt hazard class(es):	_			
Packing	group:	_			
Environr	mentally hazardous:	-			
Special p	precautions for user:	-			
	Transporting/shipment by	rail (RID)			
UN num	ber:	Not subject to transport regulations.			
UN prop	er shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			
Environr	mentally hazardous:	-			
Special p	precautions for user:	-			
	Inland waterway transport	(ADN)			
UN num	ber:	Not subject to transport regulations.			
UN prop	er shipping name:	-			
Transpo	rt hazard class(es):	_			
Packing	group:	-			
Environr	mentally hazardous:	-			
Special p	precautions for user:	-			
	Transporting/shipment by	sea (IMDG)			
UN num	ber:	Not subject to transport regulations.			
UN prop	er shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			
Environr	mentally hazardous:	-			
Special precautions for user:		-			



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Trading name:		FERRI REAGE	NT, WEIGERT B		
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 prod	luct is not subject to classification.				

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



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

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



#### **SAFETY DATA SHEET**

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

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Trading name:		FERRI REAG	ENT, WEIGERT I	3		
Product code:	FR-OT-X**	Revision date:	21 Dec 2022	Version:	5	

ANNEX:
EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT
-



### **SAFETY DATA SHEET**

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

Page 1 of 17

Trade name:	HEMATOXYLIN, WEIGERT A				
Product code:	HEMA-OT-X**	Date of compilation:	19 Dec 2023	Version:	6

SECTI	ON 1. Identification of the	e substance/mi	ixture and	of the company/undertaking	
1.1.	Product identifier				
	Trade name:	HEMATOXYLIN,	, WEIGERT A	A	
	Chemical name:	-			
	Catalogue number:	HEMA-OT-X**			
1.2.	Relevant identified uses	of the substanc	e or mixture	e and uses advised against	
	Uses:		For use ir	special staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, 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:	Medju	edjugorska 59, Zagreb 885 1 2409997 885 1 2404039 sds@biognost.hr		
	Telephone number:	+385			
	Telefax:	+385			
	e-mail of competent pe	rson: <u>msds(</u>			
	National contact:	-			
1.4.	Emergency telephone number				
	National Protection and	Rescue Directo	rate:	112	
	Medical information:			+385 1 2348 342	
	Other information:	Other information:		-	

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Reg	ulation (EC) No 12	72/2008 (CLP)		
	Hazard class and categ	ory code:		Hazard statements*:	
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For ful	I text of Hazard- and EU Hazard-	statements: see Se	ction 16		
2.2.	Label elements				
	Product identification:	HEMATOXYLIN, \	WEIGERT A		
	Identification number:	-			
	Authorisation number:	-			



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Trade name:	HEMATOXYLIN, WEIGERT A				
Product code:	HEMA-OT-X**	Date of compilation:	19 Dec 2023	Version:	6

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

SECTION 3. Comp	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		

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	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.			



## **SAFETY DATA SHEET**

## amended by Regulation (EU) No. 2020/878

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Trade name:	HEMATOXYLIN, WEIGERT A				
Product code:	HEMA-OT-X**	Date of compilation:	19 Dec 2023	Version:	6

	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 eff	ects, 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	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	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 subst	tance 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	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				



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6.4.	Reference to other sect			
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112).		
6.3.2.	Cleaning up:	Sawdust, sand, mineral adsorbents		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials		
6.3.	Methods and material f	or containment and cleaning up		
	•	rier to prevent further spillage of chemicals. Prevent environmental pollution by als to enter the sewage system, surface water or groundwater.		
6.2.	Environmental precauti	ons:		
	Self-contained open-cir dissipation (fireproof cl	cuit compressed air breathing apparatus, a set for protecting the body from heat othing).		
6.1.2.	For emergency respond	ers:		
	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.		
	Accident prevention me	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.		
	Protective equipment:	When disposing of small quantities use protective clothing. Whe disposing of large quantities use self-contained open-circuit compressed air breathing apparatus or self-contained closed-circuit air breathing apparatus.		

SECTIO	ECTION 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:	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.				



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7.2.	Conditions for safe storage, including any incomp	patibilities
	Technical measures and storage conditions:	Keep in a well-ventilated place. Keep away from heat and direct solar radiation.
	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:	-
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection							
8.1. Control para	meters						
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values	
				ppm	mg/m³		
Ethanol		64-17	'-5	1000/-	1900/-		-
Ethylene glycol		107-2	1-1	20/40	52/104		-
i i							
Substance: -							
EC No: -		CAS No:	-				
DNEL							
				Industrial			
Pouto of overagues	A	Acute		Acute	Chroni	С	Chronic
Route of exposure:	effe	ect local effe		ect systemic	effect lo	cal	effect systemic
Oral	-		-		-		-
Inhalation 1900 (ethar		mg/m³ iol)	-		35 mg/ kg (ethylene glyc	ol)	380 mg/m³ (ethanol)
Dermal -			-		-		343 mg/kg (ethanol) 106 mg/kg (ethylene glycol)
Critical physical parameters: solubility, flammability, corrosivity:							
Consumer							



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Route of expos	sure:	Acute effect local	Acut		Chronic effect local	Chronic	
Oral		effect local	effect sys	sternic	- effect local	effect systemic	
Inhalation		50 mg/m³ ethanol)	-		7 mg/kg (ethylene glycol)	114 mg/m³ (ethanol)	
Dermal	-		-		-	206 mg/kg (ethanol) 53 mg/kg (ethylene glycol)	
PNEC							
Environmental protection target				PNEC			
Fresh water				_	l (ethanol) ethylene glycol)		
Freshwater sedi	ments			_	g (ethanol) g (ethylene glycol)		
Marine water				0.79 mg/l (ethanol) 1 mg/l (ethylene glycol)			
Marine sedimer	nts			2.9 mg/kg (ethanol) 3.7 mg/kg (ethylene glycol)			
Food chain				380-720 mg/kg (ethanol)			
Microorganisms	s in sewag	ge treatment		580 mg/l (ethanol) 199.5 mg/l (ethylene glycol)			
Soil (agricultura	l)			_	kg (ethanol) kg (ethylene glycol)		
Air				no inforn	nation available		
8.2. Exp	oosure co	ntrols					
8.2.1. En	gineering	measures					
		nixture related osure during id					
	Structural measures to prevent exposure:			No information available			
	Organisational measures to prevent exposure:			Organization of work in order to reduce other worker's influence during work process.			
	chnical m oosure:	easures to prev	ent	See Section 7.2			
8.2.2. Pe	rsonal pro	otection equipm	nent				



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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			
		Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374.		
	Hand protection:	Glove material: nitrile rubber		
		Glove thickness: ≥0.50 mm		
		Break through time: >480 min		
	Other skin protection:	During everyday work use cotton clothing and suitable footwear, such as rubber boots or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No information available		
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Section 6		
	Structural measures to prevent exposure:	Use modern equipment.		
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to prevent exposure:	See Section 6		

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:	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			



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	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
9.2.	Other information		
	-		

SECTIO	SECTION 10.: Stability and reactivity					
10.1.	Reactivity:	The product is stable under normal working and storage conditions.				
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (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.				
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.				
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.				

SECTION 11. Tox	SECTION 11. Toxicological information							
11.1. Informat	tion on hazard class	ses as defined	l in Regulation (EC	C) No 1272/200	8			
Acute to	xicity:							
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results			
Oral:	No information available	rat	LD <sub>50</sub>	-	7.060 mg/kg (ethanol) 7.712 mg/kg (ethylene glycol)			



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Dermal:	No information available	rabbit	LD <sub>50</sub>	-		>3.50	>20.000 mg/kg (ethanol >3.500mg/kg (ethylene glycol)	
Inhalation:	No information available	rat	LC <sub>50</sub>	4 h (eth	ianol)	>8.00	0 mg/l (etha	nol)
į								
Specific	target organ toxicit		•					
	•	cific effects	5		get orga			Note
Oral:	No information			No informa			-	
Dermal:	No information			No informa			-	
Inhalation:	No information	available		No informa	tion ava	ilable	-	
Aspirati	on hazard:		No inform	nation availab	e			
Irritatio	n and corrosion							
	Exposure	time	Species	Evaluation	n M	ethod	١	Note
Skin corrosion/irritation	on:	-	-	-	-		No available	information
Serious eye damage/irritation	- 1	-	-	-	-		No available	information
:								
Sensitiz								
Skin sensitization	: No information	available						
Respiratory sensitization:	No information	available						
Sympto	ms related to the pl	nysical, che	emical and to	oxicological ch	naracteri	stics		
Oral exposure:	It may lead to do loss of conscious present, dysper	usness afte	r exposure t	o higher level			•	
Dermal exposure	: Defatting, dry s	kin.						
Inhalation exposure:	Bronchoconstri	May cause eye irritation and upper respiratory system (stinging sensation, irritation).  Bronchoconstriction is possible. Possible symptoms include CNS symptoms such as neadache, vertigo, intoxication and loss of consciousness after exposure to higher levels of						
Eye exposure:	Splatter may ca	use discor	nfort, stingir	ng sensation, o	conjunct	ival redn	ess, corneal	surface



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Repeate	To dose toxicity (su	Dacute, Subcrire	onic, chronic)	1	1	
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic No information available		No information available	No information available	No information available	No information available	-
_ ,						
Specific	target organ toxic	<u> </u>	•	-		
		Specific effects		Target organ  No information available		Note

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



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Chronic	ronic dermal No information available ronic inhalation No information available		No information available	-			
Chronic			No information available	-			
	CMR effects (	carcinogenicity; mutagenicity; re	eproductive toxicity)				
	Carcinogenici	ty:	No information available				
	Mutagenicity	in-vitro:	No information available				
	Genotoxicity:		No information available				
	Mutagenicity	in-vivo:	No information available				
	Germ cell mu	tagenicity:	No information available				
	Reproductive	toxicity:	No information available				
	Summary of properties:	f evaluation of the CMR	-				
11.2.	Information o	n other hazards:					
11.2.1.	Endocrine dis	rupting properties:					
	No known e that affect hu	ndocrine disrupting properties man health.	S				
11.2.2.	Other informa	ations:					
	-						

SECTION 12. Ecological information:  12.1. Toxicity								
Fish	LC <sub>50</sub>	96 hours	Fish	No information available	8.140 mg/l (ethanol) 72.860 mg/l (ethylene glycol)	-		
Crustacea:	EC <sub>50</sub>	48 hours	water flea	No information available	7.800 mg/l (ethanol) >100 mg/l (ethylene glycol)	-		
Algae/aquatic plants	IC <sub>50</sub>	72 hours	algae	No information available	5.000 mg/l (ethanol) 6.500-13.000 mg/l (ethylene glycol)	-		
Microorganisms	-	_	No information available	No information available	No information available	-		



Value

**Species** 

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Chronic (long-ter toxicity	m) 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 and degrada	bility				
	degradation					
i	Degradation	half-lives	Meth	od	Evaluation	Note
Marine water	No information a	available	No information	available I	No information availabl	e -
Fresh water	No information a	available	No information available		No information availabl	e -
Air	No information a	available	No information available		No information availabl	e -
Soil	No information a	available	No information	available I	No information availabl	e -
Piodogr	adation					
Biodegra % Degradation	Time (day	·c)	Method	Fyalı	uation N	ote
70 Degradation	Time (day	3)	Wictiloa	Lvaic	-	
-	-	-		-		
	•					
12.3. Bioaccur	mulative potentia	al				
	coefficient: n-od		log Kow):			
Value C	Concentration	pH °	C Metho	od Eva	aluation [	Note
			-	-	-	
Bioconce	entration factor (	BCF)				
Bioconic		,				

Method

Evaluation

Note



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Produc								II, WEIG				
TTOGGC	ct code:	HEM	IA-OT-X**	D	ate of c	ompil	ation:	19 De	c 2023	Version	•	6
No info availabl	ormation le	No ir availa	nformation able		No info		on	No infor available		No info		ion
	Chronic e	cotoxic	ity	***************************************								
	Value		Dose	Expo tin	sure ne	Sţ	oecies	Met	:hod	Evaluatio	on	Note
Chronic	toxicity on	fish	LC <sub>50</sub>	No inform availab		No infor availa	mation able	No inform availab		No informa available	tion	-
	toxicity on ea (Daphnia		EC <sub>50</sub>	No inform availab		No infor availa	mation able	No inform availab		No informa available	tion	-
	Known or No inform Surface te	nation a	ted distributi available	on in e	nvironm	ental	compart	ments:				
	.,,			1	Method							
	Value		°C	Co	oncentra	tion		Method			Note	1
	No information available	on ir	°C lo nformation vailable	No	informa <sup>s</sup>		No info	ormation		-	Note	
	No information	on ir	lo nformation vailable	No	informa			ormation		-	Note	
Transpo	No information available  Adsorption	on ir a on / des A/D coe	lo nformation vailable	No ava	informa	tion	availab	ormation		ethod	Note	Note
Transpo Soil-wa	No information available  Adsorption ort H	on / des A/D coelenry's	nformation vailable sorption	No ava	informatilable og Kow	tion	availab	ormation ole tion rate	M	ethod	Note	
	Adsorption ort Honor avail	on / des A/D coe lenry's	nformation vailable sorption efficient constant	No ava	information inform	tion	availab Evapora No info available	ormation ole tion rate ormation e	Mo i availabl	ethod nformation e nformation	Note -	

#### 12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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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 adverse effects are expected.			
SECTIO	N 13. Disposal considerations			
13.1.	Waste treatment methods			
13.1.1.	Product/Packaging disposal:			
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.			
13.1.2.	Waste codes/waste designations according to Law:			
	No information available			
13.1.3.	Waste treatment – relevant information:			
	No information available			
13.1.4.	Sewage disposal – relevant information:			
	Waste must not be disposed of into the sewage system.			
13.1.5.	Other disposal recommendations:			
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.			
13.1.6.	Relevant Community provisions:			
	-			
SECTIO	N 14. Transport information			
	Transporting/shipment by road (ADR)			
UN nun	nber: 1170			
UN pro	per shipping name: Ethanol solution			



Further information:

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Transport hazard cl	acc(6c).	3				
Packing group:						
Environmental haza	ards:	No information available				
Special precautions		-				
•	ng/shipment by rail (R	ID)				
UN number:		1170				
UN proper shipping	g name:	Ethanol solution				
Transport hazard cl		3				
Packing group:		I				
Environmental haza	ards:	No information available				
Special precautions	s for user:	_				
	ng/shipment by inland	waterways (ADN)				
UN number:		1170				
UN proper shipping	g name:	Ethanol solution				
Transport hazard cl	lass(es):	3				
Packing group:		II				
Environmental haza	ards:	No information available				
Special precautions	for user:	-				
Transporti	ng/shipment by sea (IN	MDG)				
UN number:		1170				
UN proper shipping	g name:	Ethanol solution				
Transport hazard cl	ass(es):	3				
Packing group:		II .				
Environmental haza	ards:	No information available				
Special precautions	s for user:	-				
Transport in bulk a of MARPOL 73/78 a	according to Annex II and the IBC code:	-				
Transporti	ng/shipment by air (IC.	AO-TI/IATA-DGR)				
UN number:		1170				

Transporting/shipment by	air (ICAO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II .
Environmental hazards:	No information available
Special precautions for user:	-



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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:	-			
		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;			
	Other EU regulations:	Directive 2004/42/CE of the European Parliament and of the Council of 21 Apr 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;  Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safet			
		of workers from the risks related to chemical agents at work;  Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 1  December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;			
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Transport of Hazardous Substances Act			
5.2.	Chemical safety assessme	ent			
	None				

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



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16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  IMDG: International Maritime Code for Dangerous Goods  IATA: International Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent  PBT: Persistent, Bioaccumulative and Toxic  vPvB: very Persistent and very Bioaccumulative
16.3.	Key literature references and source of data:	-
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classifi	cation	Classification procedure
_		-
16.5.	Relevant H statements (num	ber and full text)
	H: 225 302	Highly flammable liquid and vapor. Harmful if swallowed.
16.6.	Training advice:	-
16.7.	Further information:	** "X" in the product code marks different volumes (different packaging of the product)  We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

Α	N	П	N	ᆮ	v	٠.
~	ш	1	N	ᆫ	Л	١.

**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

1.1.	Product identifier				
	Trading name:	P.T.A. – P.M	.A. REAGEN	Т	
	Chemical name:	-			
	Catalogue number:	PPR-OT-X*	ŧ		
1.2.	Relevant identified use	s of the subs	tance or mix	cture and uses advised against	
	Uses:		For use wi staining ki	th Masson Trichrome and Masson-Goldner Trichrome its.	
	Uses advised against:		Only the id	dentified uses are advised.	
	Reason why uses advis			ict is intended for use only as an <i>in vitro</i> diagnostic evice, registered at the Agency for Medicinal Products and evices and there is no reason to use it for other purposes	
1.3.	Details of the supplier of the safety data sheet				
	Supplier:	Bi	BioGnost Ltd.		
	Address:	М	Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr		
	National contact:	-			
1.4.	Emergency telephone i	number			
	National Protection and	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	N 2 HAZARDS INFORMATION	SECTION 2 HAZARDS INFORMATION					
2.1.	Classification of the substance or	mixture					
2.1.1.	Classification (REGULATION (EC) N	No. 1272/2008	(CLP)				
	Hazard class and category	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 S	ection 16				
2.2.	Classification according to EC Dire	ective Nr. 1272,	/2008 CLP)				
	Product identification:	P.T.A. – P.M.A	A. REAGENT				
	Identification number:	-					
	Authorization no.:	-					



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Trading name:	P.T.A. – P.M.A. REAGENT				
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	Hazard pictograms:	-	
	Signal word:	-	
	Hazard statements:	-	
	Precautionary statements:	-	
	Further information:	-	
2.3.	Other hazards		
	<b>Endocrine Disrupting Proper</b>	ties:	
	No known endocrine disrupting properties		
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a PBT or a vPvB.		

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

SECTIO	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 aider:	Treat symptomatically.				
4.2.	Most important symptoms and effects, both acute and delayed					
	FOILOWING INNAISTION.	ccording to our findings, chemical, physical and toxicological properties of e substance have not been entirely tested.				
	FOILOWING CRID COUTSCT.	ccording to our findings, chemical, physical and toxicological properties of e substance have not been entirely tested.				



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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

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

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



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

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

SECTION 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:  Measures to protect the environment:		Secure proper ventilation.		
			Prevent spilling into the sewage system and waterways.		
	Other measures:		-		
7.1.2.	3 1 73				
	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: vent		Geep in tightly closed and upright set containers in a well entilated storage rooms, and away from sources of heat, unlight, and other incompatible substances.		
	Packaging materials: Ma		anufacturer'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:	and o	ot place the unused material in the storage room do not use empty containers for storing other nicals. Do not store with incompatible materials (see on 9).		
7.3.	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			



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Trading name:	P.T.A. – P.M.A. REAGENT					
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8.1. Control para	meters				ECTION		
Substance					cupational exposure limit		
					,		Biological limit value
				F	ppm -	mg/m³ -	No information available
					140 IIIIOIIIIatioii availabic		
Substance							
name:							
EC No: -		CAS No:	-				
DNEL							
				Ind	ustrial		
Route of	А	cute		Acute	9	Chronic	Chronic
<b>exposure:</b> eff		ct local	effe	ect syst	emic	effect loc	al effect systemi
Oral	-		-			-	-
Inhalation	-		-		-		-
Dermal	-		-		-		-
Critical physical parar	neters: s	olubility, flan	nmabili	ty, corr	osivity:	-	
	1			Con	sumer		
Route of		cute	Acut			Chronic	
exposure:	effe	ct local	effe	ect syst	emic	effect loc	al effect systemi
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
PNEC							
Environmental protection	ction targ	get			PNEC		
Fresh water					No information available		
Freshwater sediment	S				No information available		
Marine water					No information available		
Marine sediments				No information available			
Food chain					mation availab		
Microorganisms in sewage treatment				No information available			
Soil (agricultural)				No information available			
Air					No information available		



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

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



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Trading name:	P.T.A. – P.M.A. REAGENT					
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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

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

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



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Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results
Oral exposure:	No information available	-	LD <sub>50</sub>	-	-
Dermal exposure:	No information available	-	LD <sub>50</sub>	-	-
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-	-

Specific target organ toxicity – single exposure (STOT SE):					
	Specific effects	Target organ	Note		
Oral exposure:	No information available	No information available	-		
Dermal exposure:	No information available	No information available	-		
Inhalation exposure:	No information available	No information available	-		

Respiratory irritation:	No information available

### Irritation and corrosion

	Exposure time	Species	Evaluation	Met hod	Note
Skin irritation:	-	-	-	-	-
Eye irritation:	-	-	-	-	-

Sensitization					
Dermal exposure:	No information available				
Inhalation exposure:	No information available				

Symptoms related to the physical, chemical and toxicological characteristics						
Oral exposure:	No information available					
Dermal exposure:	No information available					
Inhalation exposure:	No information available					
Eye exposure:	No information available					



Chronic oral

No information available

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

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

Repeate	ed dose toxicity (su		onic, chronic	·)	1	
	Dose	Exposure time	Species	Method	Evaluatio	n Note
Subacute oral	No information available	No information available	No informatic available	No information available	No information available	on -
Subacute dermal	No information available	No information available	No informatic available	No information available	No information available	on -
Subacute inhalation	No information available	No information available	No informatic available	No information available	No information available	on -
Subchronic oral	No information available	No information available	No informatic available	No information available	No information available	on -
Subchronic dermal	No information available	No information available	No informatic available	No information available	No information available	on -
Subchronic inhalation	No information available	No information available	No informatic available	No information available	No information	on -
Chronic oral	No information available	No information available	No informatio available	No information available	No information	on -
Chronic dermal	No information available	No information available	No informatic available	No information available	No information available	on -
Chronic inhalation	No information available	No information available	No informatic available	No information available	No information available	on -
Specific	target organ toxic	•	exposure (ST			NI - 4 -
Cubaguta and		Specific effects		Target org	•	Note
Subacute oral Subacute derma		ation available		No information ava		-
Subacute derma		ation available		No information ava		-
Subchronic oral		ation available		No information ava		_
Subchronic derm		ation available		No information ava		
Subchronic inhal		ation available		No information ava		_
Sabernonie initial	adon NO IIIIOIII	ation available		INO IIIIOIIIIAUOII AVAIIADIE		ļ

No information available



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Chronic	dermal	No informa	tion available	No information available	-		
Chronic	inhalation	No informa	tion available	No information available	-		
	C) 45 (f	,					
			, mutagenicity, rep	<u> </u>			
	Carcinogenic	ity:	Based on avail	able data, the classification criteria	are not met.		
	Mutagenicity	in-vitro:	Based on avail	able data, the classification criteria a	are not met.		
	Genotoxicity:		Based on avail	able data, the classification criteria a	are not met.		
	Mutagenicity	in-vivo:	Based on avail	able data, the classification criteria a	are not met.		
	Germ cell mu	ıtagenicity:	Based on avail	able data, the classification criteria a	eria are not met.		
	Reproductive toxicity: Based on available data, the classification criteria are not met.						
11.2	Information of	on other hazard	ls:				
11.2	Information of	on other hazard	ls:				
11.2.1.	Endocrine dis	srupting proper	ties:				
	contain con have endocr according to Commission 2017/2100 c	ance/mixture inponents con rine disrupting o REACH Artic Delegated reg or Commission 05 at levels o	properties cle 57(f) or ulation (EU) Regulation				
	higher.						
11.2.2.	higher. Other inform	ations:					

## 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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Trading name:	P.T.A. – P.M.A. REAGENT				
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Microorganisms	LC <sub>50</sub>	72 hours	-	<b>–</b>	-	-
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 available				

### 12.3. Bioaccumulative potential

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

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



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Trading name:		P.T.A. – P.M.A. F	REAGENT		
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Produc	t code	e: PF	PR-OT-X**		Date	of co	mpilation	on:	21 Dec	202	22 \	/ersion:	4
	Bioco	ncentrat	ion factor (BCF)										
V	alue		Species		N	/lethoc		E	valuation			Note	
No info availabl									on	No infor	mation av	ailable	
	Chror	nic ecoto	xicity	1				1					
	Valu	ie	Dose		osure ime	Spe	ecies	V	1ethod		Evaluatio	on	Note
Chronic	toxicit	y on fish	LC <sub>50</sub>	No infor availa	mation able	No inforr availa	mation Ible		ormation ilable	1	o informat ailable	ion -	
Chronic toxicity on crustacea ( <i>Daphnia</i> ) EC <sub>50</sub>		EC <sub>50</sub>	No infor availa	No rmation information lable available				ormation ilable	1	No information _ available			
12.4.	Know No in	······································	dicted distributi n available	on in e	environm	nental c	ompart	ment	·S:				
		alue	п. °С	C	oncentra	tion		Me	thod			Note	
	No	mation	No information available	No information available						-	Note		
	Adso	rption / c	desorption										
Transpo	ort		coefficient 's constant	lc	g Kow		Evap	oratio	on rate		Met	hod	Note
Soil-wat	tor :	No available	information	No ir availa	nformation able	on No	o inform	nation	n available	<b>,</b>	No infor		-
Water-a	air	No available	information	No ir availa	nformation able	on No	o inform	nation	n available		No infori available		-
Soil-air		No available	information	No ir availa	nformation able	on No	o inform	nation	n available	)	No informavailable		-



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Trading name:		ding name: P.T.A. – P.M.A. REAGENT					
Produ	duct code: PPR-OT-X** Date of compilation: 21 Dec 2022 Version:				4		
12.5.	Results o	f PBT and vPvB assessr	ment				
	according		t contain components considere o or Commission Delegated reguels of 0.1% or higher.			•	
12.6.	Endocrine	e disrupting properties	;				
	according		t contain components considerer or Commission Delegated regules of 0.1% or higher.			•	
		verse effects					
12.7.	()+haradi						

### **SECTION 13 DISPOSAL CONSIDERATIONS**

Product/Packaging disposal:

1	13	1	۱۸/	acta	troa	tment	mat	had	c
			V V	สรเษ	пеа	шиеш	11111111	110301	

13 1 1

3	Troducty rackaging disposal.
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature
	Protection.

### 13.1.2. Waste codes/waste designations according to Law:

No information available

#### 13.1.3. Waste treatment – relevant information:

No information available

### 13.1.4. Sewage disposal – relevant information:

Waste must not be disposed of into the sewage system.

#### 13.1.5. Other disposal recommendations:

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

### 13.1.6. Relevant Community provisions:



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SECTION 14 TRANSPORT INFORMATION	NC
Transporting/shipment by road	(ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (F	RID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN	
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (I	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (IC	CAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-



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Special precautions for u	iser: -	
Further information:	-	

SECTI	ON 15 REGULATORY INFO	RMATION	
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations		
	Authorization and/or restrictions of use		
	Authorizations:	-	
	Restrictions:	-	
		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;	
	Other EU regulations:	Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;	
		Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;	
		Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;	
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);	
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
15.2.	Chemical safety assessme	ent	
	None		

SECTION 16 Other information			
16.1. Indication of changes:	-		



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

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

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**Exposure scenario resulting to Chemical safety assessment** 

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