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Trading name:	HEMATOXYLIN ML						
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9		

1.1.	Product identifier					
	Trading name:	HEMATO	HEMATOXYLIN ML			
	Chemical name:	-				
	Catalogue number:	HEMML				
1.2.	Relevant identified use	es of the su	ubstance or m	ixture and uses advised against		
	Uses:		Modified	hematoxylin acc. to Mayer-Lillie for nuclear staining.		
	Uses advised against:		Only the	identified uses are advised.		
	Reason why uses advi	sed agains	uct 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 safe	ety data sheet			
	Supplier: Bio		BioGnost Ltd.	ioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 24099	+385 1 2409997		
	Fax no.: +		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue	Directorate:	112		
	Medical information:			. 205 1 2240 242		
	Medical information:			+385 1 2348 342		

SECTIO	ECTION 2. Hazards identification					
2.1.	Classification of the substance or	Classification of the substance or mixture				
2.1.1.	Classification according to Regul	ation (EC) No 1272/20	08 (CLP)			
	Hazard class and cate	gory code:	Hazard statements*:			
	Eye Irr. 2 H319					
2.1.2.	Additional information					
	-					
*For ful	I text of Hazard- and EU Hazard-sta	atements: see Section	16			
2.2.	Label elements					
	Product identification: HEMATOXYLIN ML					
	Identification number: -					
	Authorization no.:	-				



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	Hazard pictograms:	GHS07			
	Signal word:	Warning			
	Hazard statements:	H319 Causes serious eye irritation.			
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.			
	Supplemetal hazard information (EU):	-			
2.3.	Other hazards				
	Endocrine Disrupting Properties:				
	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. C	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)			
7784-31-8/ 616-524-3/ -	-	3 – 4 %	aluminum sulfate octadecahydrate	Eye Dam. 1; H318			

SECTI	ON 4. First aid measures	
4.1.	Description of first aid measu	ures
	General notes:	Take off contaminated clothing.
	Following inhalation:	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.
	Following skin contact:	Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.
	Following eye contact:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
	Following ingestion:	Rinse mouth. Call a doctor if you feel unwell.



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	Self-protection of the first aider: Treat symptomatically.					
4.2.	Most important symptom	Most important symptoms and effects, both acute and delayed				
	Following inhalation:	Following inhalation: No information available				
	Following skin contact: No information available					
	Following eye contact: Risk of blindness, Risk of serious damage to eyes.					
	Following ingestion: No information available					
4.3.	Indication of any immediate medical attention and special treatment needed					
	-					

SECTIO	CTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, 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 substance or mixture				
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Do not enter fire area without pro	per protective equipment, including respiratory protection.			
5.4.	Additional information				
	Remove sources of heat and ignit Do not contaminate the environm				

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equ	uipment 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:				
	Do not enter fire area without prope	er protective equipment, including respiratory protection.			
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 containm	ent and cleaning up			



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6.3.1.	Bunding, covering of drains; capping procedures:	Covering of drains. Take up mechanically.		
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. 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:	Place in appropriate containers for disposal.		
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	n about containment.		

SECTIO	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generat	ion: Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	-			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated place.			
	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)				



Soil (agricultural)

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

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							1 4 9 5 5 1 1		
Trading nam	ne:				НЕМА	TOXYLIN ML			
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				·					
Reco	ommer	ndations:			-				
Indu	strial s	sector spe	ecific solutio	ns:	-				
			_						
SECTION 8. E				al prote	ction				
8.1. Cont	trol pa	rameters							
Subs	tance		CAS I	No		al exposure limit ort term values	Biological limit values		
3003	tarice		CAST	NO	ppm	mg/m³	Biological littlit values		
_			-		-	-	No information available		
		l		1	1	1			
Substance name:	Alum	ninium su	Ilphate octa	decahyd	rate				
EC No:	233-	135-0	CAS No:	77	84-31-8				
DNEL									
					Industrial				
Route of		A	Acute		Acute	Chronic	Chronic		
exposure:		effe	ect local eff		ect systemic	effect local	effect systemic		
Oral		-		-		-	-		
Inhalation		-		-		-	13,4 mg/m <sup>3</sup>		
Dermal		-		-		-	3,8 mg/kg bw/day		
Critical physic	al para	ameters:	solubility, fla	ammabil	ity, corrosivity:	-			
				l	Consumer	T			
Route of exposure:		1	Acute ect local	offe	Acute	Chronic effect local	Chronic offset systemic		
Oral		ene	ect iocai	-	ect systemic	- effect local	effect systemic		
Inhalation		-		_		_			
Dermal		_		_		_			
PNEC									
Environmenta	l prote	ection tar	get		PNEC				
Fresh water			No info	rmation available					
Freshwater se	dimen	ts			No info	rmation available			
Marine water					No info	rmation available			
Marine sedim	ents				No info	rmation available			
Food chain					No info	rmation available			
Microorganisr	ns in s	sewage tr	eatment		No info	No information available			

No information available



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Air			No information available			
8.2.	Evnocuro controle					
8.2.1.	Exposure controls					
0.2.1.	Engineering measures Substance/mixture related					
	measures to prevent exposure during identified uses:  Structural measures to prevent exposure:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
			No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
Technical measures to prevent exposure:		event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equi	pment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection					
	Chem 374. Hand protection:		mical protection gloves are suitable, which are tested according to EN  Glove material: nitrile rubber  Glove thickness: > 0.11 mm  Break through time: >480 min			
	Other skin protection:		or antistatic clothing made of natural fibers (such as cotton) with long wes (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	In cas	se of inadequate ventilation wear respiratory protection.			
8.2.2.4.	Thermal hazards:	No in	nformation available			
8.2.3.	Environmental exposure	control	s			
	Substance/mixture relate measures to prevent exp		See Section 6			
	Structural measures to preserve:	revent	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace. Keep away from drains, surface and ground water.			
	Technical measures to prexposure:	event	See Section 6			

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



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

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

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



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Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or	Exposui time	re Results
Oral exposure:	anhydrous (ECHA)	rabbit	ATE <sub>mixture</sub>	-	>2.000-<5.000 mg/kg (aluminium sulphate octadecahydrate)
Dermal exposure:	anhydrous (ECHA)	rat	LD <sub>50</sub>	-	>5.000mg/kg (aluminium sulphate octadecahydrate)
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-	-
Specific ta	rget organ toxicity – singl	•	1		
	Specific	effects	Target organ		Note
Oral exposure:	No information available		No information available		-
Dermal exposure:	No information avai	ilable	No information available		-
Inhalation exposure	e: No information available		No information available		-
Respirator	y irritation:	No information av	ailable		
Irritation a	and corrosion				
l l	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	-	-	-	
Eye irritation:	_	-	-	- C	auses serious eye damage
Sensitizati					
Dermal exposure:	Permal exposure:  No information available  No information available  xposure:				

Sensitizati	on
Dermal exposure:	No information available
Inhalation exposure:	No information available
Symptom	s related to the physical, chemical and toxicological characteristics
Oral exposure:	No information available
Dermal exposure:	No information available



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Inhalation expos	ure:	No informati	on available					
Eye exposure:		Causes serio	us eye damage	9				
Repeat	ed dos	se toxicity (sub	oacute, subchr	onic, chronic)				
		Dose	Exposure time	Species	Method	Evaluation	า	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available		-
Subacute dermal	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Subacute inhalation			No information available	No information available	No information available	No information available		-
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available		-
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available		-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Specific	targe	t organ toxici	ty – repeated e	•	-			
			Specific effect	:S	Target or			Note
Subacute oral			tion available		No information available		-	
Subacute derma			tion available		No information		-	
Subacute inhalat	tion		ition available		No information		-	
Subchronic oral		No informa	ition available		No information	available	_	



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Subchro	onic dermal No information avail		lable	No information available	-		
Subchro	onic inhalation No information availa		lable No information available		-		
Chronic	oral	No information avai	lable	No information available	-		
Chronic	dermal	No information avai	lable	No information available	-		
Chronic	inhalation	No information avai	lable	No information available	-		
	CMR effects (	carcinogenicity, mutag	enicity, reproduct	ive toxicity)			
	Carcinogenicity:		No information	available			
	Mutagenicity	in-vitro:	No information available				
	Genotoxicity:		No information available				
	Mutagenicity	in-vivo:	No information available				
	Germ cell mut	agenicity:	No information available				
	Reproductive	toxicity:	No information available				
	Summary of e	valuation of the CMR	properties:	-			
11.2.	Information o	n other hazards:					
11.2.1.	Endocrine dis	rupting properties:					
	No known properties that	endocrine disrupt It affect human health.	•				
11.2.2.	Other informa	ations:					

<b>SECTION</b>	12. Ec	ologica	I inforn	nation
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#### Toxicity 12.1.

Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Fish	ЕСНА	>85.9 mg/l (aluminium sulphate octadecahydrate)	-
Crustacea:	EC <sub>50</sub>	48 hours	aquatic invertebrates	ЕСНА	>200 mg/l (aluminium sulphate octadecahydrate)	-
Algae/aquatic plants	IC <sub>50</sub>	8 days	algae	No information available	-	-



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Microorganisms	LC <sub>50</sub>	72 hours	-	-	-	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	EC <sub>50</sub>	180 min	microorganisms	ECHA	>1.000 mg/l (aluminium sulphate octadecahydrate)	-

#### Persistence and degradability 12.2.

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					

#### Bioaccumulative potential 12.3.

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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V	alue		Species		Meth	hod	Eva	luation		Not	:e
No info availabl	rmation e	•		nation	No information available		No information available			No information available	
	Chronic	ecotox	icity								
	Value		Dose		osure me	Species	Meth	od	Ev	aluation	Note
Chronic	toxicity or	n fish	LC <sub>50</sub>	No inforr availa	nation i	No nformat on available	No inform available	ation	No info	ormation ble	-
Chronic toxicity on crustacea ( <i>Daphnia</i> )		EC <sub>50</sub>	No inforr availa	nation i	No nformat on available	No inform	ation	No info	ormation ble	_	
		mation	icted distribut n available n:	ion in e	environme	ntal com	partments:				
	Value		°C		Concen	tration	Meth	od		Note	
	No informat available	ion	No inform available	nation	No inforr available		No inform available	ation	-		
	Adsorpti	on / de	esorption								
Transpo	ort	-	pefficient s constant	lo	g Kow	Evapo	ration rate	М	lethod	N	lote
Soil-wa	ter No avai	lable	information	No in availa	formation ble	No info	ormation le	No infa	ormatio ole	n -	
Water-a	air No avai	lable	information	No in availa	formation ble	No info	ormation le	No info	ormation ole	n -	
Soil-air	No	lable	information	No in availa	formation	No info	ormation	No inf	ormatio	n _	



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12.5.	Results of PBT and vPvB assessment
12.5.	No information available
	The information dvaluable
12.6.	Endocrine disrupting properties
	No known endocrine disrupting properties that affect the environment.
12.7.	Other adverse effects
12.7.	No adverse effects are expected.
	no auverse 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.	Western de de designations according to Laure
13.1.2.	Waste codes/waste designations according to Law:  No information available
	NO IIIIOITTIALIOIT AVAIIADIE
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:
	-
CECT: C	
SECTIO	N 14. Transport information



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



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Further information:	The product is not subject to classification.
ruftilei illioittiation.	The product is not subject to classification.

15.1.	Safety, health and enviro	nmental 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 (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;			
	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 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	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:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

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 a source of data:	nd _			
16.4.	Classification and procedu 1272/2008 (CLP)	re used to derive the classification for mixture according to Regulation (EC)			
Classifi	ication	Classification procedure			
_		-			
16.5.	Relevant H statements (nu	mber and full text)			
	H: 318	Causes serious eye damage.			
	319	Causes serious eye irritation.			
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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