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Trading name:		HEMATOXYLIN H							
Product code:	HEMH-OT-X**	Revision date:	16.07.2024.	Version:	10				

1.1.	Product identifier				
	Trading name:	HEMATOX\	'LIN H		
	Chemical name:	-			
	Catalogue number:	HEMH-OT-X**			
1.2.	1.2. Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		Modified h	nematoxylin according to Harris for nuclear staining.	
	Uses advised against:		Only the id	dentified uses are advised.	
Reason why uses advised against: medical device, registered at the A				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:	Bio	Gnost Ltd.		
	Address:	M	edjugorska 5	a 59, Zagreb	
	Telephone number:	+3	85 1 240999	97	
	Fax no.:	+3	385 1 2404039		
	e-mail of competent person: msds@bio				
	e-mail of competent p	erson: <u>m</u>	sds@biogno	<u>ost.hr</u>	
	e-mail of competent p National contact:	erson: <u>m</u> :	sds@biogno	ost.hr	
1.4.		-	sds@biogno	ost,hr	
1.4.	National contact:	number		112	
1.4.	National contact: Emergency telephone	number			

SECTIO	ECTION 2. Hazards identification						
2.1.	Classification of the substance of	or mixture					
2.1.1.	Classification according to Regu	ulation (EC) No 1272/20	008 (CLP)				
	Hazard class and cate	egory code:	Hazard statements*:				
	Eye Dam. 1 H318						
2.1.2.	Additional information						
	-						
*For ful	ll text of Hazard- and EU Hazard-s	statements: see Section	16				
2.2.	Label elements						
	Product identification:	HEMATOXYLIN H					
	Identification number:	-					
	Authorization no.:	-					



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	Hazard pictograms:	GHS05
	Signal word:	Danger
	Hazard statements:	H318 Causes serious eye damage.
	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. P310 Immediately call POISON CENTER or a doctor/physician if exposed.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Proper	
	No known endocrine disruptin	g properties
	Results of PBT and vPvB asse PBT or a vPvB.	essment : According to the results of its assessment, this substance is not a

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/ -	-	10 – 13%	aluminum sulfate octadecahydrate	Eye Dam. 1; H318						
107-21-1/ 203-473-3/ 603-027-00-1	01-2119456816- 28-xxxx	≤10 %	ethylene glycol	Acute Tox. 4; H302						

SECTI	SECTION 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.				



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	Following ingestion:		water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Rinse mouth. Call a doctor if you feel unwell.		
			•		
4.2.	Most important symptoms and ef		fects, both acute and delayed		
	Following inhalation:	No i	nformation available		
	Following skin contact:	No i	information available		
	Following eye contact:	Risk	of blindness, Risk of serious damage to eyes.		
	Following ingestion:	No i	nformation available		
4.3.	Indication of any immediate media		ical attention and special treatment needed		

SECTIO	ON 5. Firefighting measures			
5.1.	Extinguishing media			
	Suitable extinguishing media:	Small fire - water spray, dry powder, foam, CO ₂ Large fire - water spray or alcohol-resistant foam		
	Unsuitable extinguishing media:	water jet		
5.2.	Special hazards arising from the substance or mixture			
	Hazardous combustion products:	No information available		
5.3.	Advice for firefighters			
	Do not enter fire area without pro	oper protective equipment, including respiratory protection.		
5.4.	Additional information			
	Remove sources of heat and ignit	ion.		
	Do not contaminate the environm	nent with extinguishing media.		

SECTIO	SECTION 6. Accidental release measures						
6.1.	Personal precautions, protective e	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:	For emergency responders:					
	Do not enter fire area without pro	oper protective equipment, including respiratory protection.					



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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 co	ntainment and cleaning up				
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	on about containment.				

SECTIO	DN 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. T	horough	lly wash hands after work and before eating.		
7.2.	Conditions for safe storage, including any inco	mpatibili	ties		
	Technical measures and storage conditions:		tightly closed and upright set containers in a well sed place.		
	Packaging materials:	Manufa	acturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep a	way from food and drink. Keep the containers closed.		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			



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	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

8.1. Cor	ntrol para	ameters							
·					Occupatio	Occupational exposure limit			
Sub	stance		CAS No V		values/sł	nort tern	n values	В	iological limit values
					ppm		mg/m³		
-			-		-		-	No in	formation available
Culantana									
Substance name: Aluminium sulphate octadecahydrate			ate						
EC No:	233-1	35-0	CAS No:	778	34-31-8				
DNEL									
					Industrial				
Route of		A	Acute	Acute			Chronic		Chronic
exposure:		effe	ect local	effect systemic			effect local		effect systemic
Oral		-		-		-			-
Inhalation		-		-		-			13,4 mg/m ³
Dermal		-		-		-			3,8 mg/kg bw/day
Critical physi	cal parar	meters:	solubility, fla	mmabilit	y, corrosivity:		-		
					Consumer				
Route of		A	Acute		Acute		Chronic		Chronic
exposure:		effe	ect local	effe	ct systemic		effect local		effect systemic
Oral		-		-		-			-
Inhalation		-		-		-			-
Dermal		-		-		-			-
PNEC									
Environment	al protec	ction tar	get		PNEC				
Fresh water					No info	No information available			
Freshwater s	ediment	s			No info	No information available			
Marine water		·			No info	No information available			



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	1	ŧ	ŧ	:		

Marine se	diments			No information available		
Food chai	in			No information available		
Microorga	anisms in sewage treatment			No information available		
Soil (agric	cultural)			No information available		
Air				No information available		
8.2.	Exposure controls					
8.2.1.	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 infor	mation available		
	Organisational measures prevent exposure:	to		ation of work in order to reduce other worker's influence work process.		
	Technical measures to pre exposure:	event	ent Secure proper workspace ventilation in order to keep concentrati levels in air below permitted levels.			
8.2.2.	Personal protection equip	ipment				
8.2.2.1.	Eye and face protection:		Safety gl visor.	asses that stick to face (preventing splashing) (EN 166) or		
8.2.2.2.	Skin protection					
	Hand protection:	Chem 374.	Glove n	naterial: nitrile rubber hickness: > 0.11 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:	In cas	e of inade	quate ventilation wear respiratory protection.		
8.2.2.4.	Thermal hazards:	No in	formation	available		
8.2.3.	Environmental exposure of	ontrols				
	Substance/mixture related measures to prevent expo		See Sect	ion 6		
	Structural measures to pre exposure:	event	Use mod	lern equipment.		
	Organisational measures prevent exposure:	to		e work process to the required working conditions of the ce. Keep away from drains, surface and ground water.		
	Technical measures to pre exposure:	event	See Sect	ion 6		



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Information on basic physical and che	mical properties	
	Value	Method
Physical state:	liquid	No information available
Color:	purple - red	No information available
Odour/odour threshold:	no odor/no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lower and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

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.			



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SECTION 11. Toxio	cological information				
11.1. Information	on on hazard classes as de	efined in Regulation	on (EC) No 12	72/2008	
Acute tox	icity:				
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	time	Results
Oral exposure:	anhydrous (ECHA)	rabbit	LD ₅₀		>2.000-<5.000 mg/kg (aluminium sulphate octadecahydrate)
Dermal exposure:	anhydrous (ECHA)	rat	LD ₅₀	-	>5.000mg/kg (aluminium sulphate octadecahydrate)
Inhalation exposure:	No information available	-	LC ₅₀	_	-
Specific ta	arget organ toxicity – sing	•	Γ SE):		
	Specific	effects	Target organ		Note
Oral exposure:	No information available		No information available		-
Dermal exposure:	No information available		No information available		-
Inhalation exposure	e: No information ava	No information available		nation	-
Respirato	ry irritation:	No information	available		
пезриче	y milation.	TTO IIIIOTTIACIOTT	avanasie		
Irritation a	and corrosion				
	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	-	-	-	
Eye irritation:	-	_	-	- (Causes serious eye damage
Sensitizat	ion				
Dermal exposure:	No information available	<u> </u>			
Inhalation exposure:	No information available				



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Oral exposure:		No informati	<u> </u>		gical characteris [.]		
Dermal exposure		No informati					
Inhalation expos		No informati					
Eye exposure:	uic.		us eye damage				
Lye exposure.		Causes sello	us eye damage	<u> </u>			
Repeat	ed do	se toxicity (sul	pacute, subchr	onic, chronic)			
į ·		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 lable	No information available	No information available	No information available	No information available	-
Chronic oral		information lable	No information available	No information available	No information available	No information available	-
Chronic dermal		information lable	No information available	No information available	No information available	No information available	-
Chronic inhalation		information lable	No information available	No information available	No information available	No information available	-



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Subacu	te oral	No information ava	ilable	No information available	-			
Subacu	te dermal	lermal No information avail		No information available	-			
Subacu	te inhalation	No information ava	ilable	No information available	-			
Subchro	onic oral	No information ava	ilable	No information available	-			
Subchro	onic dermal	No information ava	ilable	No information available	-			
Subchro	onic inhalation	No information ava	ilable	No information available	-			
Chronic	oral	No information ava	ilable	No information available	-			
Chronic	dermal	No information ava	ilable	No information available	-			
Chronic	inhalation	No information ava	ilable	No information available	-			
	CMR effects (d	carcinogenicity, mutag	genicity, reproduc	ctive toxicity)				
	Carcinogenici	ty:	No information	available				
	Mutagenicity	in-vitro:	No information available					
	Genotoxicity:		No information available					
	Mutagenicity	in-vivo:	No information	o information available				
	Germ cell mut	agenicity:	No information	nation available				
	Reproductive	toxicity:	No information	available				
	Summary of e	valuation of the CMR	properties:	-				
11.2.	Information on other hazards:							
11.2.1.	Endocrine disrupting properties:							
	No known properties tha	endocrine disrup t affect human health	•					
11.2.2.	Other informa	tion:						
	-							

SECTION 12. Ecological information							
12.1. Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC ₅₀	96 hours	Fish	ECHA	>85.9 mg/l (aluminium sulphate octadecahydrate)	-	



Concentration

Value

°C

рΗ

Method

Evaluation

Note

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Crustacea:		EC ₅₀	48 hours	aquatic invertebrates		ЕСНА	>200 mg/l (aluminium sulphate octadecahydrate)	-
Algae/aquatic plants	•	IC ₅₀	8 days	algae		nformation vailable	-	–
Microorganisr	ns	LC ₅₀	72 hours	-	-		-	-
Chronic toxici	ty	Dose	Exposure time	e Species	ſ	Method	Evaluation	Note
Fish		LC ₅₀	96 hours	No information available	No ir availa	nformation able	No information available	-
Crustacea:		EC ₅₀	48 hours	No information available	No ir availa	nformation able	No information available	-
Algae/aquatic plants	•	IC ₅₀	72 hours	No information available	No ir availa	nformation able	No information available	-
Other organis	ms	EC ₅₀	180 min	microorganisms	ECHA	4	>1.000 mg/l (aluminium sulphate octadecahydrate)	-
	tic de	egradation	•	Mathad		Г.	valuation	Note
Marine water		Degradation h		Method No information ava	ilable		tion available	Note -
Fresh water	No	information	available	No information ava	ilable	No informa	tion available	_
Air		information		No information ava			tion available	_
Soil		information		No information ava			tion available	-
	ı			•				
Biod	egrad	dation						
% Degradation	n	Time (d	ays)	Method		Evaluation	No ⁻	te
No informatio available		No info available	ormation	No information available	No ir availa	nformation able	No information	on availabl
12.3. Bioa	ccum	ulative poter	ntial					
		•		ater (log Kow):				



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_	No availa	informat able	tion -	-		No informat available	ion	No inf	ormati ble	on	-	
	Bioconcer	ntration	factor (BCF	······································								
Va	alue		Species		М	lethod		Evalua	ation		Not	e
No infor		No availab		mation	No inf availab	ormation ole	No ir availa	nformat able	ion		No informati available	on
	Chronic e	cotoxicit	у	Evn	OCUPO							
	Value		Dose		osure me	Species		Method		Ev	aluation	Note
Chronic	toxicity on	fish	LC ₅₀	No inforr availa	mation able	No informat ion available	No ir availa	nformat able		No info	ormation ble	-
	toxicity on ea (<i>Daphnia</i>	')	EC ₅₀	No inforr availa	mation able	No informat ion available	No ir avail	nformat able		No info availab	ormation ble	-
12.4.	Mobility in	n soil										
			ed distribu	tion in e	environr	mental comp	partme	ents:				
	No inform	•										
	Surface te	ension:										
	Value		°C		Conc	entration		Method			Note	
	No informatio available	on No ava	inforr iilable	mation	No inf availat	formation ole	No ir avail	nformat able	ion	-		
	Adsorptio	n / deso	orption									
Transpo	rt	A/D coeff enry's co		lo	g Kow	Evapo	ration	rate	Me	thod	١	lote



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Soil-wate	No information	No information	No information	No information	
30II-wate	available	available	available	available	-
Water-air	No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB asse	essment			
	No information available				
-					
12.6.	Endocrine disrupting proper	ties			
	No known endocrine disrup	ing properties tha	t affect the environ	ment.	
12.7.	Other adverse effects				
	No adverse effects are exped	cted.			
SECTION	13. Disposal consideration	ıs			
13.1.	Waste treatment methods				
13.1.1.	Product/Packaging disposa	ıl:			
	Submit for disposal to the Protection.	egal person autho	rized by the Minist	ry of Environmental	and Nature
13.1.2.	Waste codes/waste design	ations according to	o 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 dispose	ed of into the sewa	ge system.		
13.1.5.	Other disposal recommend	ations:			
	Do not dispose of the procauthorized by the ministry the packaging to the collection ignition may occur.	in charge. Do not o	dispose of the pack	aging into the sewa	ge system. Submit



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13.1.6. Relevant Community pro	ovisions:
-	
SECTION 14. Transport information	
Transporting/shipment by	road (ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by	rail (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	r 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	r air (ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-



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

SECTION 16. Other information



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Trading name:	HEMATOXYLIN H				
Product code:	HEMH-OT-X**	Revision date:	16.07.2024.	Version:	10

16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	ication	Classification procedure			
-					
16.5.	Relevant H statements (num	(number and full text)			
	H: H302	Harmful if swallowed.			
	H318	Causes serious eye damage.			
16.6.	Training advice:	-			
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX: Exposure scenario resulting to Chemical safety assessment
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