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Trading name:		0			
Product code:	ECR-P-X**	Revision date:	21 Dec 2022	Version:	3

1.1.	Product identifier				
	Substance name:	ERIOCHRO	DME CYANINE R, C.I. 43820		
	EC No:	222-641-7	7		
	Synonyms:	Mordant I	Blue 3, Chromoxane Cyanine R		
	Catalogue number:	ECR-P-X**	r		
	REACH registration number:	-			
	CAS No:	3564-18-9)		
	Index no.:	-			
1.2.	Relevant identified uses of the	e substance	e or mixture and uses advised against		
	Uses:		For use in cytology and histology.		
	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 listed in the Registry of medical devices 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 s	Details of the supplier of the safety data sheet			
	Supplier:	BioGno	ost Ltd.		
	Address:	Medju	gorska 59, Zagreb		
	Telephone number:	+385 1	1 2409997		
	Fax no.:	+385 1	2404039		
	e-mail of competent person:	msds@	<u>Dbiognost.hr</u>		
	National contact person:	-			
1.4.	Emergency telephone number				
	National Protection and Rescue Directorate:		112		
	Medical information:		+385 1 2348 342		
	Other information:		-		

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category code:	Hazard statements*:			
	Skin Irrit. 2	H315			
	Eye Irrit. 2	H319			
	STOT SE 3	H335			
2.1.2.	Additional information				



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2.2.	Label elements			
 ,	Product identification:	ERIOCHROME CYANINE R, C.I. 43820		
	Identification number:	-		
	Authorisation number:			
	Hazard pictograms:	GHS07		
	Signal word:	Warning		
	Hazard statements:	H315 Causes skin irritation.H319 Causes serious eye irritation.H335 May cause respiratory irritation.		
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. 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. P501 Dispose of contents/container to the container approved for waste disposal.		
	Further information:	-		
2.3.	Other hazards			
	Endocrine Disrupting Properties:			

SECTION 3. 0	SECTION 3. Composition/information on ingredients						
CAS No	EC No:	Index no.	Identification name	Weight % content (or range)			
3564-18-9	222-641-7	-	Trisodium hydrogen 3,3'-(3H-2,1-benzoxathiol-3-ylidene)bis[6-oxido-5-methylbenzoate S,S-dioxide	100 %			
SECTION 4. I	SECTION 4. First aid measures						
4.1. Des	Description of first aid measures						
Ger	neral notes:	-					



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	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 begin rinsing with copious amounts of water for at least 15 min. 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. If the afflicted person is unconscious, do not provide them with anything orally. Drink at most two glasses of water. Seek medical assistance.
	Self-protection of the first aider	-
4.2.	Most important symptoms a	nd effects, both acute and delayed
	Following inhalation:	Harmful if inhaled.
	After skin contact:	Harmful in contact with skin.
	Following eye contact:	Risk of serious damage to eyes.
	Following ingestion:	Harmful if swallowed.
4.3.	Indication of any immediate	medical attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Water, foam, dry powder, CO ₂			
	Unsuitable extinguishing media:	-			
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				
	Make sure the water used for extinguishing fire does not contaminate water surface or underground waters system.				

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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	Protective equipment:		Use personal protective equipment (see Section 8).	
	Accident prevention methods:		Avoid breathing in dust. Avoid touching the substance. Secure proper ventilation.	
	Emergency procedure	es:	Leave the hazardous area, take notice of the emergency procedures.	
6.1.2.	For emergency respo	nders:		
	-			
6.2.	Environmental precau	utions:		
	Do not allow the product enter drainage.			
6.3.	Methods and material for preventing spreading and cleaning			
6.3.1.	For creating barriers, covering and sealing:	Cover the drains. Collect, bind and pump out all the spilled material. Take notice of the possible material restriction (see Sections 7 and 10). Collect in dry form. Avoid generation of dust.		
6.3.2.	Cleaning up:	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			
	Indications about waste treatment, see Section 13.			

SECTIO	ON 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Keep away from sources of ignition and heat. Do not use sparkling tools.			
	Measures to prevent aerosol and dust g	generation:	Secure proper ventilation.			
	Environmental precautions:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene	e:				
	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:		dust formation. Avoid breathing in dust. Avoid vith skin, eyes, and clothes. Keep in tightly closed s.			
	Containers materials:	Manufact	urer's original packaging.			
	Requirements for storage rooms and vessels:	•	tightly closed container. Keep in cool, dry and well space away from non-compatible substances.			



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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:	No information available.
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

8.1. Control	parameters						
Substance		CAS No		limit values	Occupational exposure limit values/short term values		iological limit values
				ppm	mg/m³		
-		-		-	-		-
Does not contain	substances re	gulated by	the pro	ofessional exposu	ure limit values.		
Substance name:							
EC No: - CA		CAS No:	-				
DNEL							
				Industrial			
Route of	Acute		Acute		Chronic		Chronic
exposure:	re: effect local ef		ef	fect systemic	emic effect loc		effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-	:	-		-
Critical physical p	parameters: solu	ubility, flam	mabilit	ty, corrosivity:			
				Consumer			
Route of exposure:	Acut effect I		ef	Acute fect systemic	Chroni effect lo		Chronic effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
PNEC							
Environmental pr	otection target			PNEC			
Fresh water				No information available			
Freshwater sedim	nents			No information available			



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Marine w	vater vater	No info	rmation available			
Marine s	ediments	No info	rmation available			
Food cha	iin	No info	rmation available			
Microorg	anisms in sewage treatment	No info	No information available			
Soil (agri	cultural)	No info	No information available			
Air		No info	rmation available			
8.2.	Exposure controls					
8.2.1.	Appropriate engineering controls					
	Substance/mixture related measures exposure during identified uses:	to prevent	Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent expo	sure:	No information available			
	Organisational measures to prevent expo		Organization of work in order to reduce other worker's influence during work process.			
	Technical measures for preventing e	xposure:	Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.			
8.2.2.	Personal protection equipment					
8.2.2.1.	FVA and tace protection.	ction: Safety glasses that stick to face (preventing splashing) or visor (EN 166).				
8.2.2.2.	Skin protection					
	of ful Hand protection:	The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374 full contact: Gloves material: Nitrile rubber Glove thickness: 0.11 mm Break through time:> 480 min splash contact: Gloves material: Nitrile rubber Glove thickness: 0.11 mm Break through time:> 480 min				
	Other skin protection: sp pro an	In normal circumstances use cotton clothes and adequate fo such as rubber boots or shoes that cover the entire foot. In c spillage risk use clothes made of impermeable material suita protection against liquid chemicals (Viton, PVC himex - HRN and footwear made of the same material.				
8.2.2.3.	Respiratory protection: 3	•	n dust are generated. Recommended filter type: Filter P 3181) for solid and liquid particles of toxic and very es.			
8.2.2.4.	Thermal hazards: -					



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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 for preventing exposure:	See Section 6

9.1.	Information on basic physical and chen	nical properties		
		Value	Method	
	Physical state:	powder	No information available	
	Colour:	dark red	No information available	
	Odour/odour threshold:	odourless/no information available	No information available	
	Melting point / freezing point:	No information available	No information available	
	Boiling point or initial boiling point and boiling range:	No information available	No information available	
	Flammability:	No information available	No information available	
	Lower and upper explosion limit:	No information available	No information available	
	Flash point:	No information available	No information available	
	Auto-ignition temperature:	No information available	No information available	
	Decomposition temperature:	No information available	No information available	
	pH:	No information available	No information available	
	Kinematic viscosity:	No information available	No information available	
	Solubility:	No information available	No information available	
	Partition coefficient n-octanol/water (log value):	No information available	No information available	
	Vapour pressure:	No information available	No information available	
	Density and/or relative density:	No information available	No information available	
	Relative vapour density:	No information available	No information available	
	Particle characteristics:	No information available	No information available	
9.2.	Other information			

SECTION 10. Stability and reactivity



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10.1.	Reactivity:	No information available
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:	Strong oxidizing agents
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. Informa	ation on toxicological	effects						
Acute t	oxicity:							
Route of exposure:	Method	Spec	cies	Do	se LD ₅₀ /LC ₅₀	Exposure	period	Result
Oral exposure:	No information available	No info	ormation	No avail	information able	No info	ormation	-
Skin contact:	No information available	No info	ormation	No avail	information able	No information available		-
Inhaling:	No information available	No info	ormation	No avail	information able	ation No information available		-
Specific	target organ toxicity	– single exp	osure (ST	OT SE	E):		:	
	Specific effects		Target organ			Note		
Oral exposure:	Oral exposure: No information available		No information available				-	
Skin contact:	No information ava	ion available No info		ormation available			-	
Inhaling:	No information ava	ilable	No infor	rmation available -			-	
1		i						
Aspirat	ion hazard:	No	o informati	ion av	vailable			
1								
Imitatio	n and corrosion Exposure	time	Specie	ıc	Evaluation	Method		Note
	LAPOSUIE	time	No	3	Lvaluation	No		Note
Skin corrosion/irritation	No information	n available	informat available		-	information available	No avail	informatior able
Serious eye damage/irritatio	No information	No			-	No information available	No avail	informatior able



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Skin contact:	No information	available						
Inhaling: No information available								
Sympt	coms related to the p		al and toxicolog	ical characteristi	CS			
Oral exposure:	No information	available						
Skin contact:	No information	available						
Inhaling:	No information	available						
Eye contact:	No information	available						
Repea	ted dose toxicity (su		onic, chronic)					
	Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No information available	No information available	No information available	No information available	No information available	-		
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-		
Subacute inhaling toxicity	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 toxicity	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 toxicity	No information available	No information available	No information available	No information available	No information available	-		
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-		



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		Specific effec	ts	Target organ	Note		
Subacut	te oral	No information avai	lable	No information available	-		
Subacute dermal No information ava			lable	No information available	-		
Subacut	te inhaling toxicity	No information avai	lable	No information available	-		
Subchro	onic oral	No information avai	lable	No information available	-		
Subchro	onic dermal toxicity	No information avai	lable	No information available	-		
Subchro	onic inhalation	No information avai	lable	No information available	-		
Chronic	oral	No information avai	lable	No information available	-		
Chronic	dermal toxicity	No information avai	lable	No information available	-		
Chronic	inhalation	No information avai	lable	No information available	-		
	CMR effects (carcir	nogenicity, mutagenici	ty, repro	ductive toxicity)			
Carcino	genicity:	No info	rmation	available			
Mutage	nicity <i>in-vitro:</i>	No info	rmation	available			
Genotoxicity: No ii			information available				
Mutage	nicity <i>in-vivo</i> :	No info	rmation	available			
Germ ce	ell mutagenicity:	No info	information available				
Reprodu	uctive toxicity:	No info	rmation	available			
	Summary of eval properties:	uation of the CMR	No info	ormation available			
11.2.	Information on oth	ner hazards:					
11.2.1.	Endocrine disrupti	ng properties:					
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.						
11.2.2.	Other information:						
	_						

SEC	СТІОІ	N 12. Ecological information
12.	1.	Toxicity



% Degradation

No information

available

Time (days)

No information available

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Acute (short-te	erm)	_	Exposu	re .			
toxicity	LIOSE		period	Shacias	Method	Evaluation	Note
				No	No	No	
Fish		LC ₅₀	96 hours	information available	information available	information available	-
				No	No	No	
Crustacea:		EC ₅₀	48 hours		information	information	_
				available	available	available	
				No	No	No .	
Algae/aquatic	plants	IC ₅₀	72 hours	information available	information available	information available	-
Microorganisn	าร	_	-	-	-	-	_
Chronic (long-		D	Exposu	re	NA - tll	F l ti	Nata
toxicity		Dose	period	Species	Method	Evaluation	Note
F: 1			061	No	No	No	
Fish		LC ₅₀	96 hours	information available	information available	information available	-
				No	No	No	
Crustacea:		EC ₅₀	48 hours		information	information	-
				available	available	available	
Algae/aquatic	nlants	IC ₅₀	72 hours	No information	No information	No information	_
/ ligac/ aquatic	piarits	1050	72 Hour.	available	available	available	
Microorganisn	าร	-	-	-	-	-	-
12.2. Persi	stence a	nd degrada	bility				
Abio	tic degra	adation					
	Degi	radation hal	f-lives	Method		Evaluation	Note
Marine water	No info	ormation av	ailable	No information ava	ilable No info	ormation availab	le -
Fresh water	No info	ormation av	ailable	No information ava	ilable No inf	ormation availab	le -
۸: ۳	No information available		ailable	No information ava	ilable No info	ormation availab	le -
Air	No information available			No information available No info			

Method

No information

available

Evaluation

No information

available

Note



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12.3.	Bioaccu	mulative pot	ential							
	Partition	n coefficient:	n-octan	ol/water	(log Kow):					
Valu	e (Concentratio	n pl	۱ °	C N	/lethod		Evaluation		Note
No informat available	ion ir	lo nformation vailable	-	-	No in availa	formatior ble		nformation lable	No info availabl	
		entration fac)			_	1		N
Va No infor available		No inforr available	nation		Metho No informat vailable			aluation ormation	No inform	Note nation
	Chronic	ecotoxicity		****						
	Value		Dose	Exposi	ıre period	Spe	cies	Method	Evaluation	Note
Chronic	toxicity o	n fish L	C ₅₀	No ir availab	formation le	No info availabl	rmation e	_	-	-
	toxicity o a (Daphn	: -	C ₅₀	No ir availab	formation le	No info availabl	rmation e	-	_	_
12.4.	Mobility	/ in soil								
	Known	or predicted	distribut	ion in en	vironmenta	al compar	tments:			
	No info	rmation avai	able							
	Surface	tension:								
	Valu	e	°C	Con	centration		Method		Not	te
	No informa available		nation ble	No in availa	formation ble	No inf availab	ormation ole	-		
		i i								
	Adsorpt	tion / desorp	tion						ī	
Transpoi	rt	A/D coeffice Henry's con		log K	ow Ev	/aporatio	n rate	Method	1	Note



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Soil-water	water No information available		No information available	No information available	-				
Water-air	No information available	No information available	No information available	No information available	-				
Soil-air	No information available	No information available	No information available	No information available	-				
12.5. Resi	Results of PBT and vPvB assessment								
No	nformation available								
·									
12.6. End	ocrine disrupting proper	ties							
acco	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 effects								
	nformation available								
140	mornadon available								

SECTION	I 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.



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13.1.6.	Relevant Community provisions:	
	-	

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:	-		
Environmental hazard(s):	-		
Special precautions for user:	-		
Transporting/shipment by rail (R	ID)		
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmental hazard(s):	-		
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:	-		
Environmental hazard(s):	-		
Special precautions for user:	-		
Transporting/shipment by sea (II	MDG)		
UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmental hazard(s):	-		
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:	-		



Further information:

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ſ					
Transport hazard	class(es):	-			
Packing group:		-			
Environmental hazard(s):		-			
Special precautions for user:		-			

SECTIO	SECTION 15. Regulatory information			
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorization and/or restrictions of use			
	Authorizations:	-		
	Restrictions:	-		
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);		
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VC 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, Transport of Hazardous Substances Act		
15.2.	Chemical safety assess	ment		
	None			

SECTION 16. Other information		
16.1.	Indication of changes:	



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Trading name:		ERIOCHROME CYANINE R, C.I. 43820		_	
Product code:	ECR-P-X**	Revision date:	21 Dec 2022	Version:	3

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.	Relevant H statements (numb	er and full text)		
	315 H: 319	Causes skin irritation. Causes serious eye irritation.		
	335	May cause respiratory irritation.		
16.5.	Training advice: -			
16.6.	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