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Trading name:	HEMATOXYLIN, C.I. 75290				
Product code:	H-P-X**	Revision date:	21 Dec 2022	Version:	4

1.1.	Product identifier	oduct identifier		
	Substance name:	HEMATOXYLIN, C.I. 75290		
	EC No:	208-237-3		
	Synonyms:	Natural Black	k 1	
	Catalogue number:	H-P-X**		
	REACH registration number:	-		
	CAS No:	517-28-2		
	Index no.:	-		
1.2.	Relevant identified uses of th	e substance or	r mixture and uses advised against	
	Uses:		For preparing nuclear staining reagents.	
	Uses advised against:		Only the identified uses are advised.	
	Reason why uses advised aga	ainst:	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	safety data she	eet	
	Supplier:		BioGnost Ltd.	
	Address:		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997	
	Fax no.:		+385 1 2404039	
	e-mail of competent person:		msds@biognost.hr	
	National contact person:		-	
1.4.	Emergency telephone number	er		
	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*:			
	Acute Tox. 4	H302			
	Skin Irrit. 2 H315				
	Eye Irrit. 2 H319				
	STOT SE 3	H335			



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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, C.I. 75290	
	Identification number:	-	
	Authorisation number:	-	
	Hazard pictograms:	GHS07	
	Signal word:	Warning	
	Hazard statements:	 H302 Harmful if inhaled. 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+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. 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		
	Endocrine Disrupting Proper No known endocrine disrupting Results of PBT and vPvB asserbT or a vPvB.		

SECTION 3. Composition/information on ingredients						
CAS No	EC No:	Index no.	Identification name	Weight % content (or range)		
517-28-2	208-237-3	_	hematoxylin	90-100%		
CECTION 4	P!4 .!.l					
SECTION 4. First aid measures						
4.1. De	Description of first aid measures					



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	General notes:		-	
	Following inhalation: Following skin contact: Following eye contact: Following ingestion:		Carry the afflicted person out of the contaminated area int 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.	
			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.	
			Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician. 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	and effects, both	n acute and delayed	
	Following inhalation:	Harmful if in	haled.	
	After skin contact:	Harmful in c	ontact with skin.	
	Following eye contact: Risk of seriou Following ingestion: Harmful if sw		us damage to eyes.	
			vallowed.	
4.3.	Indication of any immedia	te medical attenti	ion 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.				

SECT	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				



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6.1.1.	For non-emergency	personnel			
	Protective equipmer	ıt:	Use personal protective equipment (see Section 8).		
	Accident prevention methods:		Avoid breathing in dust. Avoid touching the substance. Secure proper ventilation.		
	Emergency procedures:		Leave the hazardous area, take notice of the emergency procedures.		
6.1.2.	For emergency response	onders:			
	-				
6.2.	Environmental precautions:				
	Do not allow the product enter drainage.				
6.3.	Methods and materi	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 s	ections			
	Indications about waste treatment, see Section 13.				

SECTIO	N 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 genera	ation:	Secure proper ventilation.
	Environmental precautions:		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.	Thorou	ughly wash hands after work and before eating.
7.2.	Conditions for safe storage, including any inc	ompati	ibilities
	conditions:	Minimize dust formation. Avoid breathing in dust. Avoid contact with skin, eyes, and clothes. Keep in tightly closed containers.	
	Containers materials:	Manufa	acturer's original packaging.



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	Requirements for storage rooms and vessels:	Keep in a tightly closed container. Keep in cool, dry and well ventilated space away from non-compatible substances.
	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:	-

SECTION 8. Exposure controls/personal protection							
	rol parameters	s/personal prote	ction				
	tance	CAS No		Occupationa values/sho			Biological limit values
				ppm	ı	mg/m³	J
-		-		-		-	-
Does not conta	Does not contain substances regulated by the professional exposure limit values.						
Substance name:	-						
EC No:	-	CAS No:	-				
DNEL							
			I	ndustrial			
Route of exposure:		Acute ect local		Acute effect systemic		Chronic effect local	Chronic effect systemic
Oral	-			-	-		-
Inhalation	-			-	-		-
Dermal	-			-	-		-
Critical physica	l parameters: sol	ubility, flammabi	ility, c	orrosivity:			
			C	Consumer			
Route of exposure:		Acute ect local		Acute effect systemic	:	Chronic effect local	Chronic effect systemic
Oral	-			-	-		-
Inhalation	-			-	-		-
Dermal	-			-	-		-
PNEC							
Environmental	protection targe	t		PNEC			



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Fresh water		No information available		
Freshwat	ter sediments	No informatio	n available	
Marine v	vater	No information	n available	
Marine s	ediments	No information available		
Food cha	ain	No informatio	n available	
Microorg	ganisms in sewage treatment	No informatio	n available	
Soil (agri	Soil (agricultural)		n available	
Air		No informatio	n available	
8.2.	Exposure controls			
8.2.1.	Appropriate engineering controls			
	Substance/mixture related measures to p during identified uses:	revent exposure	Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to prevent exposure:		No information available	
	Organisational measures to prevent expo	osure:	Organization of work in order to reduce other worker's influence during work process.	
Technical measures for preventing exposu		ure:	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.	Eye and face protection:	Safety glasses visor (EN 166).	that stick to face (preventing splashing) or	
8.2.2.2.	Skin protection			
		specifications standard EN37	gloves to be used must comply with the of EC Directive 89/686/EEC and the related	
		full contact:		
	Hand protection:	Gloves material: Nitrile rubber Glove thickness: 0.11 mm		
Hand protection:		Break through time:> 480 min		
		splash contact:		
			Gloves material: Nitrile rubber	
			Glove thickness: 0.11 mm	
		В	reak through time:> 480 min	
	Other skin protection:	footwear, such	umstances use cotton clothes and adequate as rubber boots or shoes that cover the case of spillage risk use clothes made of	



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		impermeable material suitable for protection against liquid chemicals (Viton, PVC himex - HRN EN 465) and footwear made of the same material.
8.2.2.3.	Respiratory protection:	Required when dust are generated. Recommended filter type: Filter P 3 (acc. to DIN 3181) for solid and liquid particles of toxic and very toxic substances.
8.2.2.4.	Thermal hazards:	-
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

.1.	Information on basic physical and chemica	l properties	
		Value	Method
	Physical state:	powder	No information available
	Colour:	light brown	No information available
	Odour/odour threshold:	odourless/no information available	No information available
	Melting point / freezing point:	200 °C	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



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	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:	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. Infor	mation on toxicologi	cal effects				
Acut	e toxicity:					
Route of exposure:	Method Species Dose LD ₅₀ /LC ₅₀ Exposure period		Result			
Oral exposure:	No information available	No informatio available	n No information	on No ir available	nformation	-
Skin contact:	No information available	No informatio available	n No information	on No ir available	nformation	_
Inhaling:	No information No information No information available No information available available		nformation	_		
Spec	ific target organ toxio	, <u> </u>	re (STOT SE): Target organ		Note	
Oral exposure:	No information ava	ilable	No information availa	able -		
Skin contact:	No information ava	ilable	No information availa	able -		
Inhaling:	No information ava	ilable	No information availa	able -		
Aspii	ration hazard:	No info	ormation available			
Irrita	tion and corrosion					
IIIIla	don and corrosion					



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Skin corrosion/irritat	_	nformation ble	No infor available	mation -	No availa	information able	No information available
Serious eye damage/irritation		nformation ble	No infor available	mation -	No availa	information able	No information available
Sensit	tization						
Skin contact:	No inform	nation availa	ble				
Inhaling:	No inform	nation availa	ible				
Symp	toms related to	the physica	al, chemical	and toxicologic	al characteristic	os	
Oral exposure:		nation availa		<u> </u>			
Skin contact:	No inform	nation availa	ıble				
Inhaling:	No inform	nation availa	ıble				
Eye contact:	No inform	nation availa	ıble				
	I						
Repea	ated dose toxic	ity (subacute	e, subchron	ic, chronic)			
	Dose	Exposure	time	Species	Method	Evaluation	Note
Subacute oral	No information available	No ir available	nformation	No information available	No information available	No information available	-
Subacute dermal	No information available	No ir available	nformation	No information available	No information available	No information available	_
Subacute inhaling toxicity	No information available	No ir available	nformation	No information available	No information available	No information available	-
Subchronic oral	No information available	No ir available	nformation	No information available	No information available	No information available	-
Subchronic dermal toxicity	No information available	No ir available	nformation	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No ir available	nformation	No information available	No information available	No information available	-
Chronic oral	No information available	No ir available	nformation	No information available	No information available	No information available	-



or higher.

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

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Chronic dermal toxicity	No information available	No information available	No information	on	No information available	No informa availab		_	
Chronic inhalation	No information available	No information available	No informatio available	formation information		No information available		-	
Specif	ic target organ	toxicity – repeated exp	osure (STO	T RE):				
		Specific effect		<u> </u>	Target orga	n		Note	<u> </u>
Subacute oral		No information availa	able	No ir	nformation ava	ilable	-		
Subacute derma	No information availa	able	No ir	nformation ava	ilable	-			
Subacute inhali	ng toxicity	No information availa	able	No information available			-		
Subchronic oral		No information availa	able	No information available			-		
Subchronic derr	mal toxicity	No information availa	able	No information available			e -		
Subchronic inha	lation	No information availa	able	No ir	nformation ava	ilable	-		
Chronic oral		No information availa	able	No ir	nformation ava	ilable	-		
Chronic dermal	toxicity	No information availa	able	No ir	nformation ava	ilable	-		
Chronic inhalati	on	No information availa	able	No ir	nformation ava	ilable	-		
CMR e	effects (carcino	genicity, mutagenicity,	reproductiv	e tox	(icity)				
Carcinogenicity			No inform	natior	n available				
Mutagenicity in	-vitro:		No inform	natior	n available				
Genotoxicity:			No inform	natior	n available				
Mutagenicity in	-vivo:		No inform	natior	n available				
Germ cell mutag	genicity:		No inform	natior	n available				
Reproductive to	exicity:		No inform	natior	n available				
Summ prope	•	ation of the CMR	No inform	natior	n available				
11.2. Inform	nation on other	hazarde							
The s compo disrup Article regula	onents conside iting properties 57(f) or Co ition (EU) 2017	properties: ure does not contain red to have endocrine according to REACH emmission Delegated /2100 or Commission 8/605 at levels of 0.1%							



Biodegradation

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

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11.2.2.	Other information:
	-

12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure period	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Microorganisms	-	-	_	-	_	-
Chronic (long-term) toxicity	Dose	Exposure period	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Microorganisms	-	-	-	-	-	-

12.2. Persistence and degradability Abiotic degradation Degradation half-lives Method Evaluation Note No information available No information available Marine water No information available Fresh water No information available Air No information available Soil No information available No information available No information available



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Trading name	:			H	EMATOX	/LIN, C.	l. 75290			
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% Degradation	Т	me (day:	s)	***************************************	Method	nod Evaluation		Note		e
No information available	No informatio	o information available			No information available					
	cumulative pot									
	ion coefficient:									
Value No information available	Value Concentr No information No inform		pH °C 		Method No information available		Evaluation No information available		No information available	
	ncentration fac)							
Value No information available		nation		No inforr available			valuation formation ble		o informa railable	Note ation
Chror	nic ecotoxicity									
Val	Value		Exposure period		cies	Method	l Eva	luation	Note	
Chronic toxicity	on fish	LC ₅₀		nformation lable	n No info availabl	rmation e	-	-		-
Chronic toxicity	L (=0		nformation	n No info	rmation	_	_		-	

12.4.	Mobility in soil									
	Known or predicted distribution in environmental compartments:									
	No information a	No information available								
	Surface tension:	Surface tension:								
	Value	°C	Concentration	Method	Note					
	No information available	No information available	No information available	No information available						



No information available

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Produc	ct code:	H-P	-X**	Revisio		date:	21 Dec 20	022	V	ersion:	4
	Adsorp	tion / de	esorption	1		1		1			
Transpo	ort	-	coefficient 's constant		log Kow	Evap	oration rate		Method		Note
Soil-wa	tor :	No infor available		_	information ilable	No i avail	nformation able	No information - available		-	
Water-a	air 🗀	No infor available		_	information ilable	No i avail	nformation able	No information available		-	
Soil-air		No infor			information ilable	No i avail	nformation able	No information available		-	
	,					•				,	
12.5.	Results	of PBT	and vPvB asso	essmei	nt						
	No info	ormation	n available								
12.6.	Endocr	ine disru	ıpting proper	ties							
					ontain compo						•
		_			r Commission		ated regulation	on (EU)	2017/2100	or Comm	ission
	Regula	tion (EU) 2018/605 at	levels	of 0.1% or hi	gher.					
12.7.	Other a	adverse (ettects								

SECTION	l 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:
13.1.3.	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.



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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:
	-

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 (RID)		
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 (IMDG)		
UN number:	Not subject to transport regulations.	
UN proper shipping name:	-	
Transport hazard class(es):	-	
Packing group:	-	
Environmental hazard(s):	-	
Special precautions for user:	-	



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

15.1.	Safety, health and en	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 guideline)	g 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, Transport of Hazardous Substances Act		



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15.2.	Chemical safety assessment
	None

SECTIO	ON 16.	Other information			
16.1.	India	cation of changes:	-		
16.2.			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.	Rele	vant H statements (number and full text	t)		
		302	Harmful if swallowed.		
	⊔.	315	Causes skin irritation.		
	H:	319	Causes serious eye irritation.		
		335	May cause respiratory irritation.		
16.5.	Trair	ning 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.		

Α	N	N	E)	K :
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Exposure scenario resulting to Chemical safety assessment