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

SECTION	ON 1: Identification of	the substance	e/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	HEMATOX	HEMATOXYLIN ML		
	Chemical name:	-	-		
	Catalogue number:	HEMML-O	Γ-X**		
1.2.	Relevant identified us	es of the subs	tance 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 against:	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	r of the safety	data sheet		
	Supplier: Bio		oGnost Ltd.		
	Address:	M	edjugorska 59, Zagreb		
	Telephone number:	+3	385 1 2409997		
	Fax no.:	+3	385 1 2404039		
	e-mail of competent p	oerson: <u>m</u>	nsds@biognost.hr		
	National contact: -				
1.4.	Emergency telephone number				
	National Protection a	National Protection and Rescue Dire		112	
	Medical information:			+385 1 2348 342	
	:				

SECTIO	CTION 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	Additional information					
	-						
*For ful	l text of Hazard- and EU Hazard-sta	atements: see Section	16				
2.2.	Label elements						
	Product identification: HEMATOXYLIN ML						
	Identification number:	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 Proper No known endocrine disruptin Results of PBT and vPvB asso PBT or a vPvB.	

SECTION 3. Co	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	SECTION 4. First aid measures					
4.1.	Description of first aid meas	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	s and effects, both acute and delayed			
	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	oper protective equipment, including respiratory protection.				
5.4.	Additional information					
	Remove sources of heat and ignit Do not contaminate the environm					

SECTIO	ON 6. Accidental release measures					
6.1.	Personal precautions, protective ed	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:					
	Do not enter fire area without prop	per 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 containr	nent 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	on 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:		tightly closed and upright set containers in a well ed place.		
	Packaging materials:	Manufa	cturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep av	vay from food and drink. Keep the containers closed.		
	Advices for storage equipment:	be resis	rage must be made of hard material; floors must tant to chemicals. There must be no drain that leads into sewage system. Secure proper ion.		
	Further information on storage conditions:	and do	place the unused material in the storage room not use empty containers for storing other als. Do not store with incompatible materials (see 9).		
7.3.	Specific end use(s)				



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Product cod	e: HEMMI	1L-OT-X** Revision d		date:	27.03.2023.	Version:	9
	ommendations: Istrial sector spe			_			
	Exposure contr		protection				
Substance		CAS No	Occupational exposure limit values/short term values		Biological limi	Biological limit values	
-		_	ppr -	m	mg/m³ -	No information av	ailable
Substance				l		1	
Substance name: Aluminium sulphate octadecah			cahydrate				

#### EC No: **DNEL**

Indus		Industrial	
oute of	Acute	Acute	

CAS No:

233-135-0

Route of	Acute	Acute	Chronic	Chronic
exposure:	effect local	effect systemic	effect local	effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	13,4 mg/m <sup>3</sup>
Dermal	-	-	-	3,8 mg/kg bw/day

7784-31-8

Critical physical parameters: solubility, flammability, corrosivity:

#### Consumer

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-

#### **PNEC**

Environmental protection target	PNEC
Fresh water	No information available
Freshwater sediments	No information available
Marine water	No information available
Marine sediments	No information available
Food chain	No information available
Microorganisms in sewage treatment	No information available
Soil (agricultural)	No information available



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Air			No information available		
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to preserve:	revent	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:		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:		Glove material: nitrile rubber Glove thickness: > 0.11 mm Break through time: >480 min		
	Other skin protection:		es (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 ir	formation available		
8.2.3.	Environmental exposure	control	s		
	Substance/mixture relate measures to prevent exp		See Section 6		
	Structural measures to perfect the exposure:	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 pr exposure:	event	See Section 6		

SECTIO	SECTION 9. Physical and chemical properties		
9.1.	Information on basic physical and cher	mical 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
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
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 ATE <sub>mixture</sub>	Exposu time	RACILITE
Oral exposure:	anhydrous (ECHA)	rabbit	LD <sub>50</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>	-	-
6 16					
Specific ta	arget organ toxicity – sing	·		-1	NI-+-
Oral exposure:	Specific  No information ava		Target organ  No information available		Note -
Dermal exposure:	No information ava	ilable	No inform available	ation	-
Inhalation exposure	e: No information ava	ilable	No inform available	ation	-
Respirator	ry irritation:	No information av	vailable		
Irritation a	and corrosion				
111111111111111111111111111111111111111	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	-	-	-	
Eye irritation:	-	-	-	- (	Causes serious eye damage
Sensitizati	ion				
Dermal exposure:	No information available	<u> </u>			
Inhalation exposure:	No information available				

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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Eye exposure:	Causes serio	us eye damage	9				
Reneat	ed dose toxicity (su	hacute subchr	onic chronic)				
Кереис	Dose Dose	Exposure time	Species	Method	Evaluation	າ	Note
Subacute oral	No information available	No information available	No information available	No information available	No inform available	nation	-
Subacute dermal	No information available	No information available	No information available	No information available	No inform available	nation	-
Subacute inhalation			No information available	No information available	No information available		-
Subchronic oral	No information available	No information available	No information available	No information available	No information available		-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available		-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available		-
Chronic oral	No information available	No information available	No information available	No information available	No inform available	nation	-
Chronic dermal	No information available	No information available	No information available	No information available	No inform available	nation	-
Chronic inhalation			No information available	No information available	No information available		-
Specific	target organ toxic	ty - repeated	evnosure (STO	T RF)·			
эрссии	target organ toxic	Specific effect	•	Target or	gan		Note
Subacute oral	No informa	ation available		No information available		-	
Subacute derma		ation available		No information available		-	
Subacute inhalat		ation available		No information		-	
Subchronic oral		nation available		No information available		_	



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Subchro	nic dermal	No information availa	able	No information available	-		
Subchro	nic inhalation	No information availa	able	No information available	-		
Chronic	nic oral No information avai		able	No information available	-		
Chronic	nronic dermal No information ava		able	No information available	-		
Chronic	inhalation	No information availa	able	No information available	-		
***	CMR effects (c	carcinogenicity, mutage	enicity reproducti	ve toxicity)			
	Carcinogenicit	3 , 3	No information available				
	Mutagenicity <i>in-vitro</i> :		No information available				
	Genotoxicity:		No information available				
	Mutagenicity <i>in-vivo</i> :		No information available				
	Germ cell mut	agenicity:	No information available				
	Reproductive	toxicity:	No information available				
	Summary of e	valuation of the CMR p	roperties:	-			
44.0							
11.2.		n other hazards:					
11.2.1.	Endocrine disr	rupting properties:					
	No known properties tha	endocrine disrupti t affect human health.	ng				
11.2.2.	Other informa	tion:					
	_						

SECTION 12. Ecolog	SECTION 12. Ecological information								
12.1. Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC <sub>50</sub>	96 hours	Fish	ECHA	>85.9 mg/l (aluminium sulphate octadecahydrate)	-			
Crustacea:	EC <sub>50</sub>	48 hours	aquatic invertebrates	ECHA	>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)	-

#### 12.2. Persistence and degradability

Abiotic degradation

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

Biodegradation

% Degradation	Time (days)	Method	Evaluation	Note
No information available				

#### 12.3. Bioaccumulative potential

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

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



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V	'alue		Species		Method Evaluat		uation		No	te	
No info availabl	rmation le	No ava	inforn ailable	nation	No inforr available		No inform available	ation		No informat available	ion
	Chronic	ecoto	xicity								
	Value		Dose		osure me	Species	Meth	od	Eva	lluation	Note
Chronic	toxicity o	on fish	LC <sub>50</sub>	No inforr availa	nation io	No nformat on vailable	No inform available	ation	No info	ormation le	-
	toxicity of ea ( <i>Daphr</i>		EC <sub>50</sub>	No inforr availa	nation io	No nformat on vailable	No inform	ation	No info	ormation le	-
12.4.		or pre	il dicted distribut on available	ion in e	environme	ntal com <sub>l</sub>	partments:				
	Surface	tensic	n:								
	Valu	ıe	°C		Concen	tration	Meth	od		Note	
	No informa availabl		No inform available	nation	No inforr available	mation	No inform available	ation	_		
	Adsorp	tion / o	desorption								
Transpo	ort		coefficient 's constant	lo	g Kow	Evapo	ration rate	М	ethod		Note
Soil-wa	ter No	ailable	information	No in availa	formation ble	No info	ormation le	No inf	ormation ole	-	
Water-a	air No	ailable	information	No in availa	formation ble	No info	ormation lle	No inf availat	ormation ole	-	
	No		information		formation	1	ormation		ormation		



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12.5.	Results of PBT and vPvB assessment
	No information available
12.6.	Endocrine disrupting properties
	No known endocrine disrupting properties that affect the environment.
12.7.	Other adverse effects
	No adverse effects are expected.
SECTIOI	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	-
	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 r	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 s	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 a	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.
	in the production in the company of

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

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



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16.2.	Abbreviations and acronyms	par route (European Dangerous Goods by IMDG: International MIATA: International MIATA: International MIATA: GHS: Globally HIATA: GHS: Globally HIATA: EINECS: European Invited CAS: Chemical Abstructure DNEL: Derived No-ELC50: Lethal concert LD50: Lethal dose, Support Persistent, Biological Biological Concert LD50: Lethal dose, Support Persistent, Biological European DNEL: Persistent DNEL: Pe	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			
16.3.	Key literature references and source of data:	-				
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classification		Classification procedure				
		-				
16.5.	5. Relevant H statements (number and full text)					
	H: 318	Causes serious eye damage.				
	319	Causes serious eye irritation.				
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