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Trading name:	METHYL BLUE EOSIN, SOLUTION			
Product code:	MBE-OT-X**	Date of compilation:	03 July 2019.	Version: 3

SECTI	ON 1 IDENTIFICATION (OF THE SUI	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	METHYL I	BLUE EOSIN, S	OLUTION	
	Chemical name:	-	- MBE-OT-X**		
	Catalogue number:	MBE-OT-			
1.2.	Relevant identified use	es of the sul	ostance or mix	cture and uses advised against	
	Uses:		Modified I	Mann's solution for use in histology	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advised agai		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered 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 safet	ty data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	n: <u>msds@biognost.hr</u>		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection an	nd Rescue D	irectorate:	112	
	Medical information:	Medical information:		+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2 HAZARDS INFORMATION					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)					
	Hazard class and category	/ code:	Hazard statements*:			
	Not identified as hazardous subst	tance.	-			
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-sta	atements: see S	ection 16			
2.2.	Classification according to EC Dire	ective Nr. 1272,	(2008 CLP)			
	Product identification:	METHYL BLUI	E EOSIN, SOLUTION			
	Identification number:	-				
	Authorization no.: -					
	Hazard pictograms: -					
	Signal word:	-				



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	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	-	

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)	
-	-	-	Contains no hazardous substances	-	

4.1.	Description of first aid measures			
	General notes:		-	
	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 wash with plenty of water and soap. 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. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.		
	Self-protection of the first aider:		Treat symptomatically.	
4.2.	Most important symptoms and effects, both acute and delayed			
	Following inhalation:	1	ording to our findings, chemical, physical and toxicological properties of substance have not been entirely tested.	
	Following skin contact:		ording to our findings, chemical, physical and toxicological properties of substance have not been entirely tested.	
	Following eye contact:		cording to our findings, chemical, physical and toxicological properties of a substance have not been entirely tested.	
			ording to our findings, chemical, physical and toxicological properties of substance have not been entirely tested.	
4.3.	Indication of any immediat	e medi	cal attention and special treatment needed	



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SECTIO	SECTION 5 FIREFIGHTING MEASURES				
5.1.	Extinguishing media				
	Suitable extinguishing media: Water spray, dry powder, CO ₂ or alcohol-resistant foam				
	Unsuitable extinguishing media: No information available				
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				
	Do not contaminate the environment with extinguishing media.				

SECTIO	ON 6 ACCIDENTAL RELEASE M	IEASURES		
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personne	el		
	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:			
	Wear protective equipment (s	ve equipment (see Section 8).		
6.2.	Environmental precautions:			
		n sewage, drainage system and waterways. In case of large spillage contact National cue Directorate (NPRD) on 112.		
6.3.	Methods and material for cor	ntainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal.		
6.3.3.	Other information:	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.		
6.4.	Reference to other sections			



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See Section 7 for information on safe handling. See Section 8 for information on personal protective equipment. See Section 13 for disposal information.

SECTIO	ION 7 HANDLING AN 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 generation	on: Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	-			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).			
7.3.	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			

SECTI	SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION						
8.1.	Control parameters						
Substance		CAS No	Occupational exposure limit values/short term values		Biological limit values		
			ppm	mg/m³			



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Trading na	me:				METH	YL BLUE	EOS	IN, SOL	UTION	
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		:	_							1 1
-			-			-		-	No infor	rmation available
Substance	-									
name:			I GAGAL							
EC No:	-		CAS No:	-						
DNEL										
-			At			lustrial		Claura	_:_	Characai -
Route of exposure:			Acute ect local	Δ.	Acute ffect sys			Chro effect I		Chronic effect systemic
Oral		-	eet local	_	neer sys	territe	_	CHCCL	<u> </u>	-
Inhalation		_		_			_			_
Dermal		_		_			_			_
	sical pa	rameters:	solubility, fla	mmab	ility, cor	rosivity:		-		1
, ,	<u>'</u>		<i>,</i> ,		-	nsumer				
Route of			Acute		Acute		Chronic		nic	Chronic
exposure:		effe	effect local effe		effect systemic		effect local		effect systemic	
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC										
Environmen	ital pro	tection tar	get			PNEC				
Fresh water						No infor	matic	n availab	ole	
Freshwater	sedime	nts				No information available				
Marine wate	er					No information available				
Marine sedi	ments					No infor	matic	n availab	ole	
Food chain						No information available				
Microorgan	isms in	sewage tr	eatment			No infor	matic	n availab	ole	
Soil (agricul	tural)					No information available				
Air						No infor	matic	n availab	ole	
8.2.	-	ure contro								
8.2.1.		eering me								
	measu		ure related vent exposu d uses:	re		•				Use personal protective the workspace.
	Struct		ures to preve	ent	No info	rmation av	/ailab	ole		



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	Organisational measures to prevent exposure:	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 equipment	
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	
	Hand protection:	Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter type "ABEK" (EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
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 to prevent exposure:	See Section 6

SECTI	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES						
9.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Color:	violet	No information available				
	Odor:	No information available	No information available				
	Odor threshold:	No information available	No information available				
	рН:	5.0 -6.0	No information available				
	Melting point / freezing point;	No information available	No information available				
	Initial boiling point and boiling range:	No information available	No information available				



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	Flash point:	No information available	No information available			
	Evaporation rate:	No information available	No information available			
	Flammability (solid, gas):	No information available	No information available			
	Upper/lower flammability or explosive limits:	No information available	No information available			
	Vapor pressure:	No information available	No information available			
	Vapor density:	No information available	No information available			
	Relative density:	No information available	No information available			
	Bulk density:	No information available	No information available			
	Solubility(ies):	Soluble in water (20 °C)	No information available			
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available			
	Auto-ignition temperature:	No information available	No information available			
	Decomposition temperature:	No information available	No information available			
	Viscosity:	No information available	No information available			
	Explosive properties:	No information available	No information available			
	Oxidising properties:	No information available	No information available			
9.2.	Other information					

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

SECTION 11 TOXI	SECTION 11 TOXICOLOGICAL INFORMATION							
11.1. Information	11.1. Information on toxicological effects							
Acute tox	Acute toxicity:							
Route of exposure:	Method	od Species LE		Exposure time	Results			
Oral exposure:	No information available	_	LD ₅₀	-	-			



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Dermal exposure:	No informatio	n _	L	_D ₅₀		_	-
Inhalation exposure:	No informatio available	n -	l	LC ₅₀		-	-
•		<u> </u>	<u> </u>		i .		!
Specific	target organ toxicit	y – single exp	osure (STOT SE)	:			
	S	pecific effects		Targe	t organ		Note
Oral exposure:	No informa	ition available	No	informati	on availabl	e -	
Dermal exposure:	No informa	ition available	No	informati	on availabl	e -	
Inhalation exposu	ıre: No informa	ition available	No	informati	on availabl	e -	
Respirate	ory irritation:	١	No information a	vailable			
Irritation	and corrosion		,				
	Exposure 1	time S	Species Eva	aluation	Method		Note
Skin irritation:	-	-	-		-	-	
Eye irritation:	-	-	-		-	-	
·							
Sensitiza	tion						
Dermal exposure:	No information	available					
Inhalation exposure:	No information	available					
Cumentor	ns valated to the ph	veigal shamis	ral and tavicales	rical cham	a stavistics		
: • • •	ns related to the ph According to	•	-	-		propertie	s of the substance
Oral exposure:		en entirely test				-	
Dermal exposure:		our findings, en entirely test		cal and to	xicological	propertie	s of the substance
Inhalation exposu	IrΔ· ·	our findings, en entirely test		cal and to	xicological	propertie	s of the substance
Eye exposure:		our findings, en entirely test		cal and to	xicological	propertie	s of the substance
1							
Repeate	d dose toxicity (sub	acute, subchr	onic, chronic)	1	1		1
	Dose	Exposure time	Species	Metho	d E	valuation	Note
Subacute oral	No information available	No information available	No information available	No inform availab		lo nformatior vailable	-



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Note

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Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	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	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	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	-

Specific target	Specific target organ toxicity – repeated exposure (STOT RE):						
	Specific effects	Target organ					

Subacute oral No information available No information available Subacute dermal No information available No information available -Subacute inhalation No information available No information available Subchronic oral No information available No information available Subchronic dermal No information available No information available Subchronic inhalation No information available No information available Chronic oral No information available No information available _ Chronic dermal No information available No information available Chronic inhalation No information available No information available

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)					
Carcinogenicity:	No information available				
Mutagenicity in-vitro:	No information available				



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	Genotoxicity:	No info	ormation available					
	Mutagenicity in-vivo:	No info	ormation available					
	Germ cell mutagenicity:	No info	No information available					
	Reproductive toxicity:	No info	No information available					
	Summary of evaluation of th	ie CMR prop	perties: -					
11.2.	Practical experiences:							
	Remarks relevant for classific	cation:	No information available					
	Other remarks:		No information available					
11.3.	General notes:							
	-							

SECTION 12 ECOLOGICAL INFORMATION:

Acute toxicity	Dose	Exposure time	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	8 days	No information available	No information available	No information available	-
Microorganisms	LC ₅₀	72 hours	-	-	-	_
Chronic toxicity	Dose	Exposure time	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	-
Other organisms	-	-	-	-	-	-



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12.2. Pers	isten	ce and de	gradability	у							
Abio	otic d	egradatio	n				-				1
		Degradati	ion half-liv	⁄es		Method			Evaluatio	n	Note
Marine water	No	o informat	tion availa	ble	No info	rmation availab	ole	No inform	nation av	ailable	-
Fresh water	No	o informat	tion availa	ble	No info	rmation availab	ole	No inform	nation av	ailable	-
4ir	No	o informat	tion availa	ble	No info	rmation availab	ole	No inform	nation av	ailable	-
Soil	No	o informat	tion availa	ble	No info	rmation availab	ole	No inform	nation av	ailable	-
Rioc	logra	dation									
% Degradati			e (days)		M	ethod		Evaluatio	on	N	ote
No informati available	on	No available	informat		No inforn available	nation		o information		No informa available	ntion
		nulative po	otential t: n-octan	al /wat	or (log V						
Value		oncentrati		oi/wat oH	°C	Method		Evalua	ation		Note
- Value	No	informa lable	•	711	No information		1	No information available			11010
	avai					available		avaliable			
Bioc	once	ntration fa	actor (BCF)							
Value			Species			Method		Evaluation		N	lote
No informati available	on	No availab	inforn le	nation	No info	ormation ble		No information available		No information available	
Chro	onic e	ecotoxicity	/								
Va	lue		Dose		posure time	Species		Method	Eval	uation	Note
Chronic toxic	ity or	n fish	LC ₅₀	1	rmation lable	No information available	1	o formation ailable	No info	ormation le	-



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Chronic		-	EC ₅₀		No inforr availa	mation	No informavailab	1		inform ilable	ation	-	
12.4.	Mob	oility in so	il										
	Knov	wn or pre	dicted distributi	ion in environme	ental c	compartn	nents:						
	No ii	nformatio	n available										
	Surfa	ace tensio	n:			1							
	V	/alue	°C	Concentrat	ion		Metho	od			No	ote	
	information in		No information available	No information available		No information available			-				
	Adsc		desorption										
Transpo	ort		coefficient 's constant	log Kow		Evaporation rate		١	Лeth	od		Note	
Soil-wa	ter	No available	information	No information available		No information No in available availa			nation	-			
	ter-air No information available		No information available		No information available		No informatior available		nation	_			
Water-،	a11	avallable		avanubic					No information available				

SECTION 13 DISPOSAL CONSIDERATIONS

No information available

13.1.	W	aste '	trea	tmen [.]	t met	hods
-------	---	--------	------	-------------------	-------	------

13.1.1. Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.



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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 in	formation:						
	Waste must not be disposed	of into the sewage system.						
13.1.5.	Other disposal recommendat	ions:						
	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 provisio	ns:						
	-							
SECTION	14 TRANSPORT INFORMATI	ON						
7	Transporting/shipment by road	(ADR)						
UN numb	per:	Not subject to transport regulations.						
UN prope	er shipping name:	-						
Transport	hazard class(es):	-						
Packing g		-						
	entally hazardous:	-						
	recautions for user:	-						
1	Fransporting/shipment by rail (
UN numb		Not subject to transport regulations.						
	er shipping name:	-						
······	hazard class(es):	-						
Packing g	•	-						
	entally hazardous:	-						
	recautions for user:	-						
	nland waterway transport (ADN							
UN numb		Not subject to transport regulations.						
	er shipping name:	-						
······································	: hazard class(es):	-						
Packing g	roup:	-						



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Environmentally hazardous:	-	
Special precautions for user:	-	
Transporting/shipment by	sea (IMDG)	
UN number:	Not subject to transport regulations.	
UN proper shipping name:	-	
Transport hazard class(es):	-	
Packing group:	-	
Environmentally hazardous:	-	
Special precautions for user:	-	
Transporting/shipment by	air (ICAO-TI/IATA-DGR)	
UN number:	Not subject to transport regulations.	
UN proper shipping name:	-	
Transport hazard class(es):	-	
Packing group:	-	
Environmentally hazardous:	-	
Special precautions for user:	-	
Further information: The prod	duct is not subject to classification.	

SECTI	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:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives		



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Product code:	MBE-OT-X**	Date of compilation:	03 July 2019.	Version: 3

	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-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, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
15.2.	Chemical safety assessmen	t	
	None		

SECTIO	SECTION 16 Other information				
16.1.	Indication of changes:	-			
16.2	Abbrovistions and agrapumes	PBT vPvB	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative.		
16.2. Abbreviations and acronyms:		LD ₅₀ LC ₅₀ STOT-SE	Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure		
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	Classification C		Classification procedure		
- -		•			
16.5.	. Relevant H statements (number and full text)				
	H: -	-			
16.6.	Training advice:	-			
		** "X" in the product code marks different volumes (different packagings of the product)			
16.7.	7. Further information: We are not responsible for consequences in case of failure to compliant instructions for use or improper use of the product described in this material safety data sheet.		use or improper use of the product described in this		

ANNEX:

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT