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Trading name:		METHYLENE BLUE, C.I. 52015						
Product code:	MB-P-X**	Revision date:	31.07.2019.	Version:	3			

SECTI	ON 1. Identification of the sub	stance	/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Substance name:	METH	YLENE BLU	JE, C.I. 52015		
	EC No:	200-5	515-2			
	Synonyms:	Basic	Basic Blue 9			
	Catalogue number:	MB-P	MB-P-X** - 7220-79-3			
	REACH registration number:	-				
	CAS No:	7220-				
	Index no.:	-				
1.2.	Relevant identified uses of the substance of			xture and uses advised against		
	Uses:		For microscopy.			
	Uses advised against:		Only the identified uses are advised.			
	Reason why uses advised aga	nst:	medical d	uct is intended for use only as an <i>in vitro</i> diagnostic evice, 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 of the s	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:	М	Medjugorska 59, Zagreb			
	Telephone number:	+3	+385 1 2409997			
	Fax no.:	+3	+385 1 2404039			
	e-mail of competent person:	<u>ms</u>	msds@biognost.hr			
	National contact:	-				
1.4.	Emergency telephone number	Emergency telephone number				
	National Protection and Rescu	ıe Dire	ctorate:	112		
	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 according to Regulati	on (EC) No 1272/2008 (CLP)				
	Hazard class and category code: Hazard statements*:					
	Acute Tox. 4 H302					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-state	ements: see Section 16				
2.2.	Label elements					
	Product identification: METHYLENE BLUE, C.I. 52015					



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	Identification number:	-
	Authorization no.:	-
	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statements:	H302 Harmful if swallowed.
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call Poison Center or docotr/physician if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	-	

SECTION 3. Co	SECTION 3. Composition/information on ingredients								
CAS No	EC No:	Index no.	Identification name	Weight % content (or range)					
7220-79-3	200-515-2	-	methylene blue	90-100 %					

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	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 copious amounts of water for at least 15 minutes. 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. Seek medical attention in case of irritation or other symptoms.			



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	Self-protection of the first aider:	-			
4.2.	Most important symptoms and effects, both acute and delayed				
	Following inhalation:	Harmful if swallowed.			
	Following skin contact:	Harmful by inhalation and in contact with skin.			
	Following eye contact:	Risk of serious damage to eyes.			
	Following ingestion:	Harmful if swallowed.			
4.3.	Indication of any immediate medi	cal attention and special treatment needed			
	=				

SECTIO	ECTION 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:	Certain substances may occurr in case of fire: nitrogen oxides, sulfur oxides.				
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 extin	guishing fire does not contaminate water surface or groundwaters.				

SECTIO	ON 6. Accidental releas	e measures					
6.1.	Personal precautions, protective equipment and emergency procedures						
6.1.1.	For non-emergency po	For non-emergency personnel					
	Protective equipment:		Use personal protective equipment (see Section 8).				
	Accident prevention methods: Avoid inhaling dust. Avoid contact with the substance. Secure proper ventilation.						
	Emergency procedures: Leave the hazardous area, pay attention to emergency procedures, consult with expert.						
6.1.2.	For emergency responders:						
	-						
6.2.	Environmental precautions:						
	The product must not	enter sewers.					
6.3.	Methods and material for containment and cleaning up						
6.3.1.	For creating barriers, covering and attention to the possible material restrictions (see Sections 7 and 10). Collect in dry form.						



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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				
	For indications of waste processing see Section 13.				

SECTIO	ON 7. Handling an storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		-		
	Measures to prevent aerosol and dust generatio	n:	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. Th	oroughly v	vash hands after work and before eating.		
7.2.	Conditions for safe storage, including any incom	patibilities			
	Technical measures and storage conditions:	mist or	ze dust formation. Avoid inhaling vapor, dust, gas. Avoid contact with skin, eyes and clothes. It tightly closed container. Avoid swallowing and ng.		
	Packaging materials:	Manufa	acturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep container tightly closed. Keep in cool, dry a well-ventilated space, away from incompatible substances. The storage must be made of hard material; floor must be resistant to chemicals. There must be no drain that directly leads into sewage system. Sec proper ventilation.			
	Advices for storage equipment:				
	Further information on storage conditions:	No info	ormation available.		
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	Biological limit values				



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										rage 3 01 13	
Trading name:					METH	IYLENE	BLUE, C.I. 52	015			
Product co	ode:	١	ИВ-Р-X**		Re	vision	date:	31.07.2019.	Versio	n: 3	
			T					Ţ			
						lim		/short term			
							valı				
						р	pm	mg/m ³			
							-	-		-	
Substance name:	_										
EC No:	-			CAS No:	_						
DNEL					:						
						Indu	strial				
Route of			Ac	ute		Acute	<u> </u>	Chroni	С	Chronic	
exposure:				t local	effe	ct syst		effect lo		effect systemic	
Oral			-		-			-		-	
Inhalation			-		-			-		-	
Dermal -				-			-		-		
Critical phy	/sical p	aran	neters: sol	ubility, flam	ımability	, corro	sivity:	1	L		
					_	Cons	umer	·			
Route of			Ac	ute		Acute	<u> </u>	Chroni	С	Chronic	
exposure:			effec	t local	effect sys		temic effect loc		cal	effect systemic	
Oral			-		-			-		-	
Inhalation			-		-			-		-	
Dermal			-		-			-		-	
PNEC											
Environme	ntal pr	otec	tion targe	t			PNEC				
Fresh wate	r						No information available				
Freshwater	sedim	ents	;				No information available				
Marine wat	ter						No information available				
Marine sed	liments	5					No information available				
Food chain	1						No information available				
Microorga	nisms i	n se	wage treat	tment			No information available				
Soil (agricultural)				No information available							
Air					No information available						
8.2.	Exposure controls										
8.2.1.	Appro	priat	te enginee	ring contro	ols						
				elated meas ring identif		:		personal protection		ment. Do not eat, drink	



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	Structural measures to preven	ent e	xposure:	No information available			
	Organisational measures to	prev	ent exposure:	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to preve	ent ex	xposure:	Use with appropriate ventilation.			
8.2.2.	Personal protection equipm	ent					
8.2.2.1.	Eye and face protection:	Safe	ety glasses that	stick to face (preventing splashing) or visor.			
8.2.2.2.	Skin protection						
	Hand protection:		case of coming into thorough contact, use butyl rubber gloves (0.4 mm ck). In case of contact with drops, use polychlorene gloves (0.1 mm ck).				
	Other skin protection:	rubl use liqu	ber boots or sho clothing made	ork use cotton clothing and suitable footwear, such as oes that cover the entire foot. In case of spilling hazard, of impermeable material suitable for protection from ton, PVC, himex) and footwear made from the same			
8.2.2.3.	Respiratory protection:		e concentration	level exceeds the GVI values, use full gas mask vn filter A.			
8.2.2.4.	Thermal hazards:	-					
8.2.3.	Environmental exposure controls						
	Substance/mixture related measures to prevent exposu	ıre:	See Section 6				
	Structural measures to preve exposure:	ent	Use modern equipment.				
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.				
	Technical measures to preve exposure:	ent	See Section 6				

SECTI	SECTION 9. Physical and chemical properties						
9.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	powder	No information available				
	Color:	dark green	No information available				
	Odor:	No odor	No information available				
	Odor threshold:	No information available	No information available				
	pH:	No information available	No information available				
	Melting point / freezing point;	190 °C	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):	No information available	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		
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:	No information available			
10.4.	Conditions to avoid:	Strong heating.			
10.5.	Incompatible materials:	Strong oxidizers and reducing agents.			
10.6.	Hazardous decomposition products:	No information available			

SECTION 11. Toxicological information								
11.1. Information	Information on toxicological effects							
Acute toxi	Acute toxicity:							
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀	Exposure time	Results			
Oral exposure:	No information available	No information available	No information available	No information available	-			



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Product code:	MB-P-X**	B-P-X**			31.07.20)19.	Version:	3	
1		T						1	
Dermal exposure:	No information available	No i availab	information le No information availab			available		-	
Inhalation exposure:	No i availab	nformation le	No inform availal		No i availat	nformation ble	-		
Specific ta	rget organ toxicity -	- single e	exposure (ST	OT SE):					
	Sp	ecific effe	ects		Targe	et organ		Note	
Oral exposure:	No information av	ailable			No in availabl	formation	on -		
Dermal exposure:	No information av	ailable			No in availabl	formation	on -		
Inhalation exposure:	No information av	information available			No in availabl	formation	on -		
Aspiration	hazard:		No informat	ion ava	ilable				
Irritation a	nd corrosion								
	Exposure time				Evaluatio	n	Method	Note	
Skin corrosion/irritation:		rmation	No information - available			No informa availab		No information available	
Serious eye damage/irritation	No info available	rmation	No information - available			No informa available		No information available	
Sensitizati	on								
Dermal exposure:	No information	No information available							
Inhalation exposure	e: No information	No information available							
Symptoms	related to the phys	ical, cher	mical and to	xicologi	cal chara	cteristic	s		
Oral exposure:	Harmful if swa	allowed.							
Dermal exposure:	n and in contact with skin.								
Inhalation exposure: Harmful if swallow									
Eye exposure:	Risk of seriou	e to eyes.							
Repeated	dose toxicity (subac		chronic, chro	nic)					
	Dose	rposure me	Specie	es	Metho	od	Evaluation	Note	



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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 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 effects	Target organ	Note
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	-



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Carcinogenicity:		No information available						
Mutagenicity in-vitro:			No information available					
Genote	oxicity:	No info	formation available					
Mutag	enicity in-vivo:	No info	formation available					
Germ (cell mutagenicity:	No info	formation available					
Repro	ductive toxicity:	No info	formation available					
	Summary of evaluation of the properties:	CMR	No information available					
11.2.	Practical experiences:							
	Remarks relevant for classification	า:	No information available					
	Other remarks:	No information available						
11.3.	General notes:							
	-							

SECTION 12. Ecologi	cal informa	tion				
12.1. Toxicity						
Acute (short-term) 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	-	-	-	-	-	-
Chronic (long-term) 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	No	No	-



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Trading nam		NAD D V/++			·			UE, C.I. 52			
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						mation ilable		ormation vailable	inform availa		
Other organis	ms	-	-		-		-		-		-
		,	,					•			
12.2. Persis	stence	and degrada	ability								
Abiot	ic deg	radation									
	De	gradation ha	lf-lives		Ме	thod		E۱	/aluation	l	Note
Marine water	No i	nformation a	vailable	No	informa	tion availa	able	No inform	nation av	ailable	-
Fresh water	No i	nformation a	vailable	No	informa	tion availa	able	No inform	nation av	ailable	-
Air	No i	nformation a	vailable	No	informa	tion availa	able	No inform	nation av	ailable	-
Soil	Noi	nformation a	vailable	No	informa	tion availa	able	No inform	nation av	ailable	-
Biode	egrada	tion									
% Degradatio	n	Time (c	lays)		Met	hod		Evaluatio	n		Note
No informatio available	n _N	lo informatio	n availa	hla :	Δ			No information available		-	
available					avanabie		avc				
12.3. Bioac	cumul	ative potent	ial								
		efficient: n-c		vater (log Kow	١٠					
Value		ncentration	рН		C	Methoc	<u> </u>	Fyalı	ıation		Note
No			Pii								
information	No i avail	nformation	-	_	No information available		ion	on No information available		No information available	
available	avall	able			ave	allable		avaliable		avall	able
Віосс	ncent	ration factor	(BCF)								
Value		Spec	ies		Me	thod		Evaluat	ion		Note
No information No information			lo inforr	nation		No informat	ion		ormation		
available		available		а	vailable		а	ıvailable		availal	ole
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										_
-											
Chroi	nic ecc	otoxicity								-	
Valu	ıe	Do	ose	Expos tim		Species		Method	Evalu	uation	Note



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Chroni	Chronic toxicity on fish LC_{50} Chronic toxicity on crustacea (Daphnia) EC_{50}		LC ₅₀ No information available		No inforr availa	mation i	No inform availab		No information available	1 -
			information information inf			lo No Information information vailable available		1 -		
12.4.	Mobility	in soil								
			ed distributi	on in environme	ntal c	ompartm	ents:			
	No inforr	nation av	/ailable							
	Surface to	ension:								
	Value		°C	Concentration	on	Me	ethod			Note
	No No information available available		ormation	No information available		No information available		-		
	Adsorption	on / desc	orption							
Transp	ort	A/D coef lenry's co		log Kow		Evaporati rate	on	N	Method	Note
Soil-wa	ater No avai	ir lable	formation	No information available		No informat		No information available		-
Water-	air No avai	ir lable	formation	No information available		o informa railable	ation	No information available		-
Soil-air	ir No information available		No information available		o informa railable	ation	n No information available		-	
12.5.			d vPvB asse	ssment						
	No inforr	nation av	/ailable							
12.6.	Other ad	verse eff	ects							
	No inforr	nation av	/ailable							

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.



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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 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:
	-

SECTION 14 TRANSPORT INFORMA	ATION
Transporting/shipment by ro	ad (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 ra	il (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:	-
Transporting/shipment by in	and waterways (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:	-



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Transporting/shipment by sea (IN	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:	-	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-	
Transporting/shipment by air (ICAO-TI/IATA-DGR)		
Transporting/shipment by air (IC.	AO-TI/IATA-DGR)	
Transporting/shipment by air (IC. UN number:	AO-TI/IATA-DGR) Not subject to transport regulations.	
UN number:	Not subject to transport regulations.	
UN number: UN proper shipping name:	Not subject to transport regulations.	
UN number: UN proper shipping name: Transport hazard class(es):	Not subject to transport regulations.	
UN number: UN proper shipping name: Transport hazard class(es): Packing group:	Not subject to transport regulations.	
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazard(s):	Not subject to transport regulations.	

SECTI	ON 15. Regulatory inform	ation	
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations		
	Authorization and/or rest	rictions 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);	
Oth		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	
	Information according 19	99/13/EC about limitation of emissions of volatile organic compounds (VOC-	



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Trading name:	METHYLENE BLUE, C.I. 52015				
Product code:	MB-P-X**	Revision date:	31.07.2019.	Version:	3

	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 assessm	ent
	None	

SECTIO	SECTION 16. Other information			
16.1.	Indication of changes:	-		
		PBT	Stable, bioaccumulative and toxic	
	Abbreviations and acronyms:	vPvB	Strongly stable and strongly bioaccumulative.	
16.2.		LD ₅₀	Lethal dose, 50%	
		LC ₅₀	Lethal concentration, 50%	
		STOT-SE	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:	-		
16.4.	Relevant H statements (numbe	and full text)		
	H: H302	Harmful if swallowed.		
16.5.	Training advice:	-		
	** "X" in the product code marks different volumes (di of the product)		roduct code marks different volumes (different packagings)	
16.6.	Further information:		sponsible for consequences in case of failure to comply ns for use or improper use of the product described in this data sheet.	

AI	NNEX:
EX	XPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT
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