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Trading name:	METHYL VIOLET 2B, C.I. 42535				
Product code:	MV2B-P-X**	Revision date:	08 Dec 2023	Version:	4

1.1.	Product identifier					
	Substance name:	METHYL	VIOLET 2B,	. C.I. 42535		
	EC No:	616-846	-4			
	Synonyms:	Basic Vid	olet 1			
	Catalogue number:	MV2B-P	-X**			
	REACH registration number:	-				
	CAS No:	8004-87	-3			
	Index no.:	-				
1.2.	Relevant identified uses	Relevant identified uses of the substance of		xture and uses advised against		
	Uses:		For bacterial staining according to Gram.			
	Uses advised against:		Only the identified uses are advised.			
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, 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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent pe	erson:	msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone r	number				
	National Protection and	d Rescue Dire	ectorate:	112		
	Medical information:	Medical information:		+385 1 2348 342		
	Other information:	Other information:		-		

SECTIO	ON 2. Hazards information				
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			
	Carc. 2	H351			
	Aquatic Acute 1	H400			
2.1.2.	Additional information				
	-				



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2.2.	Label elements	
	Product identification:	METHYL VIOLET 2B, C.I. 42535
	Identification number:	-
	Authorization no.:	-
	Hazard pictograms:	GHS07 GHS08 GHS09
	Signal word:	Danger
	Hazard statements:	H302 Harmful if swallowed.H351 Suspected of causing cancer.H400 Very toxic to aquatic life.
	Precautionary statements:	P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/attention.
	Further information:	-
2.3.	Other hazards	
	Results of PBT and vPvB assess PBT or a vPvB.	

SECTION 3. Composition/information on ingredients



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CAS No	EC No:	Index no.	Identification name	Weight % content (or range)
8004-87-3	616-846-4	-	Basic Violet 1	90-100 %

SECTI	ON 4. First aid measures	
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 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.
	Self-protection of the first aider:	-
4.2.	Most important symptoms and ef	fects, 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
	-	

SECTI	SECTION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:	In case of fire use water spray for cooling the jars. Use water spray, dry dust, CO ₂ , or a suitable foam.				
	Unsuitable extinguishing media:	-				
5.2.	Special hazards arising from the sub	stance or mixture				
	Hazardous combustion products:	-				
5.3.	Advice for firefighters					
	Use a self-contained open-circuit co	mpressed air breathing apparatus and fireproof clothing.				



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	Cool closed containers exposed to fire with water spray or vapor.		
5.4.	Additional information		
	-		

SECTIO	ON 6. Accidental releas	e measures	
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency p	ersonnel	
	Protective equipment:		Use personal protective equipment (see Section 8).
	Accident prevention n	nethods:	-
	Emergency procedure	s:	-
6.1.2.	For emergency respor	nders:	
	-		
6.2.	Environmental precau	tions:	
	-		
6.3.	Methods and material	for containment	and cleaning up
6.3.1.	For creating barriers, covering and sealing:	-	
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 sec	ctions	
	-		

SECTIO	SECTION 7. Handling an 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 tools that cause sparks.				
	Measures to prevent aerosol and dust generation:	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.					



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7.2.	Conditions for safe storage, including any inco	mpatibilities		
	Technical measures and storage conditions:	Wash hands thoroughly after handling. Use with appropriate ventilation. Minimize dust formation. Avoid inhaling vapor, dust, mist or gas. Avoid contact with skin, eyes and clothes. Keep in tightly closed container. Avoid swallowing and breathing.		
	Packaging materials:	Manufacturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep container tightly closed. Keep in cool, dry and well- ventilated space, away from incompatible 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									
8.1.	Cont	rol para	meters						
Substance CAS			CAS N	Occupational limit values/sh value		/short term		Biological limit values	
					ppm	mg/m³			
-				-	-		-		
Substance - name:									
EC No: -			CAS No:	CAS No: -					
DNEL									
						Industrial			
Noute of			ute t local	Acute effect systemic		Chronic effect local		Chronic effect systemic	
Oral -		-		-		-		-	
Inhalation -			-		-		-		
Dermal -			-		-		-		
Critical	l physica	al para	meters: sol	ubility, flam	mability	, corrosivity:			
						Consumer			



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	i		<u> </u>		;	i i		
Route o		Acute effect local	Acut effect sys		Chronic effect local	Chronic effect systemic		
Oral		-	-		-	-		
Inhalatio	n	-	-		-	-		
Dermal		-	-		-	-		
PNEC								
Environmental protection target				PNEC				
Fresh wa	ter			No infor	mation available			
Freshwat	ter sediment	:S		No infor	mation available			
Marine v	vater			No infor	mation available			
Marine s	ediments			No infor	mation available			
Food cha	ain			No infor	mation available			
Microorg	ganisms in se	ewage treatment		No infor	mation available			
Soil (agri	cultural)			No infor	mation available			
Air				No information available				
8.2.	Exposure	controls						
8.2.1.	Appropriate engineering controls							
	measures	e/mixture related to prevent exposure entified uses:	•	Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural exposure:	measures to prevent	No inform	No information available				
	Organisat prevent ex	ional measures to xposure:		Organization of work in order to reduce other worker's influence during work process.				
	Technical exposure:	measures to prevent	Use with a	appropriat	e ventilation.			
8.2.2.	Personal p	orotection equipment						
8.2.2.1.	Eye and fa	ace protection:	Safety glass	es that sti	ck to face (preventing	splashing) or visor.		
8.2.2.2.	Skin prote	ection						
				e of coming into thorough contact, use butyl rubber gloves (0.4 nick). In case of contact with drops, use polychlorene gloves (0.1 nick).				
	Other skir	n protection:	During everyday work use cotton clothing and suitable footwer as rubber boots or shoes that cover the entire foot. In case of hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwarde from the same material.					



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8.2.2.3.	Respiratory protection:	If the concentration level exceeds the GVI values, use full gas mask equipped with brown filter A.
8.2.2.4.	Thermal hazards:	-
8.2.3.	Environmental exposure control	s
	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

.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	powder	No information available				
	Color:	blue green	No information available				
	Odour/odour threshold:	No information available	No information available				
	Melting point / freezing point:	137 ℃	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				
	Lover 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				



products:

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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:	Incompatible materials.			
10.5.	Incompatible materials:	Strongly oxidizing media.			
10.6.	Hazardous decomposition	No information available			

	cological informati						
11.1. Informatio	n on toxicological e	mects					
Route of exposure:	Method	od Species		Dose LD ₅₀ /LC ₅₀	Exposure time		Results
Oral exposure:	No information available	rat		LD ₅₀	No informatic		1 413 mg/kg
Dermal exposure:	No information available	No i availab	nformation le	No information available	No availab	information le	۱ -
Inhalation exposure:	No information available	No i	nformation le	No information available	No availab	information le	۱ -
Specific ta	rget organ toxicity -	- sinale e	exposure (ST	OT SE):			
-P		c effects		Target organ			Note
Oral exposure:	No information	available No ir		o information availa	ormation available -		
Dermal exposure:	No information	on available		No information available		-	
Inhalation exposure	: No information	available No information		o information availa	ilable -		
Aspiration	hazard:		No informa	tion available			
:							
Irritation a	nd corrosion				1		
	Exposure t	time	Specie	es Evaluation	Me	ethod	Note
Skin No information corrosion/irritation: available		rmation	No inform available	nation -			No informatior available
Serious eye No inform damage/irritation available		rmation	No inform	nation -	No in		No informatior available



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Sensit	izatior	า					
Dermal exposu	re: l	No informati	on available				
Inhalation exposure:	I	No informati	on available				
екрозите.							
Sympt	oms r	elated to the	physical, chemical	and toxicological	characteristics		
Oral exposure:			swallowed.				
Dermal exposu	re:	Harmful b	y inhalation and in	contact with skin			
Inhalation expo			swallowed.				
Eye exposure:		Risk of ser	rious damage to eye	es.			
<u>· · · · · · · · · · · · · · · · · · · </u>		i					
Repea	ted do	ose toxicity (s	subacute, subchroni	c, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral		information lable	No information available	No information available	No information available	No information available	_
Subacute dermal		information lable	No information available	No information available	No information available	No information available	-
Subacute inhalation		information lable	No information available	No information available	No information available	No information available	-
Subchronic oral		information lable	No information available	No information available	No information available	No information available	-
Subchronic dermal		information lable	No information available	No information available	No information available	No information available	_
Subchronic inhalation		information lable	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		information lable	No information available	No information available	No information available	No information available	-
Chronic inhalation		information lable	No information available	No information	No information	No information available	-



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			available	available		
Specific target	t organ toxicity – re	peated exp	osure (STOT RE)):		
	Specific 6	effects	Tar	get organ	Note	
Subacute oral	No information	available	No informa	ition available	-	
Subacute dermal	No information	available	No informa	ition available	-	
Subacute inhalation	No information	available	No informa	ition available	-	
Subchronic oral	No information	available	No informa	ition available	-	
Subchronic dermal	No information	available	No informa	ition available	-	
Subchronic inhalation	No information	available	No informa	ition available	-	
Chronic oral	No information	available	No informa	ition available	-	
Chronic dermal	No information	available	No informa	ition available	-	
Chronic inhalation	No information	available	No informa	ition available	-	
CMR effects (c	carcinogenicity, mu	tagenicity, ı	reproductive tox	cicity)		
Carcinogenicity:		Suspected	l of causing cand	cer.		
Mutagenicity <i>in-vitro</i> :		No inform	ation available			
Genotoxicity:		No inform	ation available			
Mutagenicity <i>in-vivo</i> :		No inform	ation available			
Germ cell mutagenicity		No inform	ation available			
Reproductive toxicity:		No information available				
Summary of properties:	evaluation of the		•	•	al, physical and toxicologica not been entirely tested.	
	n other hazards:					
	rupting properties:					
components disrupting pr Article 57(f) regulation (El	ce/mixture does considered to har operties according or Commission U) 2017/2100 or J) 2018/605 at leve	ve endocrii g to REAC n Delegate Commissio	ne CH ed on			
11.2.2. Other informa	tions:		·			
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SECTION 12.	Ecologi	cal informa	tion							
12.1. Toxic	ity									
Acute (short-to	erm)	Dose	Expo tim		Species	٨	/lethod	Evalu	ıation	Note
Fish		LC ₅₀	96 ho	urs	S. gairdnerii		No ormation vailable	0.047	⁷ mg/l	-
Crustacea:		EC ₅₀	48 ho	urs	Daphnia magna		No ormation vailable	420	mg/l	-
Algae/aquatic	plants	IC ₅₀	72 ho	urs	No information available		No ormation vailable		rmation lable	-
Other organisi	ns	-	-		-	-		-		-
Chronic (long- toxicity	term)	Dose	Expo tim		Species	٨	Method	Evalu	ıation	Note
Fish		LC ₅₀	96 ho	urs	No information available		No ormation vailable		rmation lable	-
Crustacea:		EC ₅₀	48 ho	urs	No information available		No ormation vailable		rmation lable	-
Algae/aquatic	plants	IC ₅₀	72 ho	urs	No information available		No ormation vailable		ormation lable	-
Other organisi	ms	-	-		-	-		-		-
		i	·		:	i		1		3
12.2. Persis	stence a	nd degradal	bility							
Abiot	ic degra	adation								
	Degr	adation half	-lives		Method		E	Evaluation	1	Note
Marine water	No inf	ormation av	ailable	No i	information avail	lable	No infor	mation av	ailable	-
Fresh water	No inf	ormation av	ailable	No i	information avail	lable	No infor	mation av	ailable	-
Air	No inf	ormation av	ailable	No i	information avail	lable	No infor	mation av	ailable	-
Soil No information available		No i	nformation available No informati		mation av	ailable	_			
Riode	gradati	on								
% Degradatio	_	Time (da	ave)		Method		Evaluati	on		Note
No informatio available	n	information	-	ום	No information available		information		-	14010



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								·····						
12.3.	Bioaco	cumu	lative p	otential										
	Partiti	on co	efficier	nt: n-octa	nol/wat	er (log l	(ow):							
Valu	Value Concentration pH		рН	°C	Me	ethod		Evaluati	on		Note			
No		No	informa	tion			No info	ormation		No informat	tion	No infor	mation	
informa availabl			lable	-		-	availab		1	available	lion	available		
	<u> </u>			<u> </u>	<u> </u>									
	Biocoi	ncent	tration f	factor (BC	 [F)									
V	/alue			Species	<u> </u>		Method	t		Evaluation	l	I	Vote	
No info	rmation	ı	No info	ormation		No information		No information		No information				
availabl	le		availab	ole		available		available		available				
	Chron	ic ec	otoxicit	y										
	Valu	e		Dose		oosure Species		ecies		Method	Evaluation		Not	e
					No) \		No		0	No			
Chronic	toxicity	y on t	fish	LC ₅₀	inforr availa	nation ble	inform availab			formation ailable	infor avail	mation able	-	
					No		No		No	0	No			
Chronic crustace	-			EC ₅₀		nation	inform			formation		mation	-	
Crastac	са (Вар				availa	ble	availak	ole	av	ailable	avail	able		
12.4.	Mobil													
		······		d distrib	ution in	environ	mental	compar	tmer	nts:				
			ation av	ailable										
	Surface tension:													
		lue		°C	C	oncent	ration		Metl	hod		Note	9	
	No inform availal			ormation ailable		inform ailable	ation	No inf availal	information _					



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	Adsorption / de	esorption				
Transpo	rt .	oefficient s constant	log Kow	Evaporation rate	Method	Note
Soil-wat	er No available	information	No information available	No information available	No information available	-
Water-a	ir No available	information	No information available	No information available	No information available	-
Soil-air	No available	information	No information available	No information available	No information available	-
12.5.	Results of PBT a		ssment			
12.6.	Endocrine disru	ıpting propert	ies			
	according to RI	EACH Article 5		n Delegated regula	to have endocrine d tion (EU) 2017/2100	
12.7.	Other adverse	effects				
	No information	available				

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:
	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:



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	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:	3077			
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic Violet 1)			
Transport hazard class(es):	9			
Packing group:	III			
Environmental hazard(s):	yes			
Special precautions for user:	-			
Transporting/shipment by rail (RI	D)			
UN number:	3077			
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic Violet 1)			
Transport hazard class(es):	9			
Packing group:	III			
Environmental hazard(s):	yes			
Special precautions for user:	-			
Transporting/shipment by inland waterways (ADN)				
UN number:	3077			
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic Violet 1)			
Transport hazard class(es):	9			
Packing group:	III			
Environmental hazard(s):	yes			
Special precautions for user:	-			
Transporting/shipment by sea (IN	MDG)			
UN number:	3077			
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (C.I. Basic Violet 1)			
Transport hazard class(es):	9			
Packing group:	III			
Environmental hazard(s):	yes			
Special precautions for user:	-			
Transport in bulk according to Annex II	_			



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of MARPOL 73/78 and the	IBC code:	
Transporting/ship	ment by air (ICAO-TI/IATA-DGR)
UN number:		3077
UN proper shipping name:		Environmentally hazardous substance, solid, n.o.s. (C.I. Basic Violet 1)
Transport hazard class(es):		9
Packing group:		III
Environmental hazard(s):		yes
Special precautions for use	ſ :	-
Further information:	Packages	smaller than or equal to 5 kg/L, not dangerous goods of Class 9.

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or rest	tions 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			
	Information according 19 guideline)	dangerous substances, mixtures and articles (Annex XVII); 99/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	guideiiiie)	Chemicals Act, Regulation on classification, packaging and labeling of			
	National legislation:	dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Sustainable Waste Management Act, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessme	ent			



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Trading name:	METHYL VIOLET 2B, C.I. 42535				
Product code:	MV2B-P-X**	Revision date:	08 Dec 2023	Version:	4

ſ	None
	Notice

SECTIO	CTION 16. Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	-			
16.4.	Relevant H statements (numb	per and full text)			
	302	Harmful if swallowed.			
	H: 351	Suspected of causing cancer.			
	400	Very toxic to aquatic life.			
16.5.	Training advice:	-			
16.6.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

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EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT

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