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Trading name:	METHYLENE BLUE, C.I. 52015					
Product code:	MB-P-X**	Revision date:	21 Dec 2022	Version:	4	

1.1.	Product identifier	Product identifier			
	Substance name:	METH	HYLENE BLU	E, C.I. 52015	
	EC No:	200-	515-2		
	Synonyms:	Basic	Blue 9		
	Catalogue number:	MB-F	P-X**		
	REACH registration number:	-			
	CAS No:	7220	-79-3		
	Index no.:	-			
1.2.	Relevant identified uses of the substance or mixture and uses advised against			ture and uses advised against	
	Uses:		For staining acid-fast bacteria and for staining acc. to Wright.		
	Uses advised against:		Only the identified uses are advised.		
	Reason why uses advised aga	inst:	medical de	ct is intended for use only as an <i>in vitro</i> diagnostic evice, registered at the Agency for Medicinal Products and evices and there is no reason to use it for other purposes.	
1.3.	Details of the supplier of the	safety (data sheet		
	Supplier:	Bi	oGnost Ltd.		
	Address:	Address: M		Medjugorska 59, Zagreb	
	Telephone number:	+3	385 1 24099	97	
	Fax no.:	+3	+385 1 2404039		
	e-mail of competent person:	<u>m</u>	sds@biogno	<u>ost.hr</u>	
	National contact:	-			
1.4.	Emergency telephone number				
	National Protection and Resc	ue 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 Regulation (EC) No 12	272/2008 (CLP)				
	Hazard class and category code:	Hazard statements*:				
	Acute Tox. 4	H302				
2.1.2.	Additional information					
	-					
*For fu	*For full text of Hazard- and EU Hazard-statements: see Section 16					
2.2.	Label elements					



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	Product identification:	METHYLENE BLUE, C.I. 52015
	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	
	Endocrine Disrupting Properties	:
	No known endocrine disrupting pr	roperties
	Results of PBT and vPvB assessm PBT or a vPvB.	nent : According to the results of its assessment, this substance is not a

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

SECT	SECTION 4. First aid measures					
4.1.	Description of first aid measu	ires				
	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.				



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	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 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 medical attention and special treatment needed			
	-			

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	water, foam, dry powder, CO ₂			
	Unsuitable extinguishing media:	-			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Certain substances may occurr in case of fire: nitrogen oxides, sulfur oxides.			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit of Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. fire with water spray or vapor.			
5.4.	Additional information				
	Make sure the water used for extir	guishing fire does not contaminate water surface or groundwaters.			

SECTIO	CTION 6. Accidental release measures					
6.1.	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: 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:					
	-					



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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 sealing:	Cap the drains. Collect, bundle and pump out everything that got spilled. Pay attention to the possible material restrictions (see Sections 7 and 10). Collect in dry form.			
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 was	te 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 generation	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	horoughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incom	afe storage, including any incompatibilities				
	Technical measures and storage conditions:	mist or	ize dust formation. Avoid inhaling vapor, dust, gas. Avoid contact with skin, eyes and clothes. In tightly closed container. Avoid swallowing and ing.			
	Packaging materials:	Manufa	acturer's original packaging.			
	Requirements for storage rooms and vessels:	•	ontainer tightly closed. Keep in cool, dry and entilated space, away from incompatible nces.			
	Advices for storage equipment:	must b drain t	orage must be made of hard material; floors be resistant to chemicals. There must be no hat directly leads into sewage system. Secure e ventilation.			
	Further information on storage conditions:	No info	ormation available.			
7.3.	Specific end use(s)					



Marine sediments

Soil (agricultural)

Microorganisms in sewage treatment

Food chain

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

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Trading name:				METHYLENE	BLUE, C.I. 52	2015		
Product code:	MB-P-X**		Re	vision date:	21 Dec 202	2 V	ersion:	4
Recomme	ndations:			-				
	sector specif	ic solutions:		_				
illuustilai .	sector specin	ic solutions.	•					
SECTION 8. Expos	ure controls	/nersonal i	protecti	on				
8.1. Control pa		, personar _l	protect.	<u> </u>				
				Occupation	al exposure			
Culantana		CACA	l a	limit values	/short term		المدندما	l:
Substanc	e	CAS N	NO	val	ues		lological	limit values
				ppm	mg/m³			
_		-		-	-			-
Substance								
name:		T	1					
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of	Ac	ute		Acute	Chron	nic		Chronic
exposure:	effec	t local	effect systemic		effect local		eff	ect systemic
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
Critical physical par	ameters: sol	ubility, flam	mability	, corrosivity:				
				Consumer				
Route of	Ac	ute	Acute		Chronic			Chronic
exposure:	effec	t local	effe	ct systemic	effect lo	ocal	eff	ect systemic
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
PNEC								
Environmental prot	ection targe	t		PNEC	PNEC			
Fresh water				No info	No information available			
Freshwater sedimer	nts			No info	No information available			
Marine water					No information available			

No information available No information available

No information available

No information available



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Air			No information available				
8.2.	Evnosuro controls						
8.2.1.	Exposure controls Appropriate engineering controls						
	Substance/mixture related in prevent exposure during ide	measures to	Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prev	ent exposure:	No information available				
	Organisational measures to	prevent exposure:	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prev	ent exposure:	Use with appropriate ventilation.				
8.2.2.	Personal protection equipm	nent					
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) or visor.					
8.2.2.2.	Skin protection						
	Hand protection:	In case of coming into thorough contact, use butyl rubber gloves (0.4 m thick). In case of contact with drops, use polychlorene gloves (0.1 mm thick).					
	Other skin protection:	rubber boots or so use clothing made	work use cotton clothing and suitable footwear, such as hoes that cover the entire foot. In case of spilling hazard, e of impermeable material suitable for protection from Viton, PVC, himex) and footwear made from the same				
8.2.2.3.	Respiratory protection:	If the concentration equipped with broad	on level exceeds the GVI values, use full gas mask own filter A.				
8.2.2.4.	Thermal hazards:	-					
8.2.3.	Environmental exposure co	ntrols					
	Substance/mixture related measures to prevent exposi	ure: See Section 6	5				
	Structural measures to prevexposure:	ent Use modern	n equipment.				
	Organisational measures to prevent exposure:	Adapt the wo	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to prevex	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				



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Color:	dark green	No information available
Odour/odour threshold:	no odor/no information available	No information available
Melting point / freezing point:	190 °C	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
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
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			



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SECTION 11. Toxi	cological informati	on						
11.1. Information	on on toxicological e	ffects						
Acute tox	icity:			1				
Route of exposure:	Method	Sp	pecies	Dose Exposur		Exposur	e time	Results
Oral exposure: No information available av			nformation le	No inform availab		No infoi available	rmation	-
Dermal exposure:	No information available	No i availab	nformation le	No inform availab		No infoi available	rmation	-
Inhalation exposure:	No information available	No i availab	nformation le	No inform availab		No infoi available	mation	-
Specific ta	arget organ toxicity -	single e	xposure (ST	OT SE):				
	Specific effects				Targe	t organ		Note
Oral exposure: No information availa				No info available		formation _		
Dermal exposure:	No information av	ailable			No information available			
Inhalation exposure:	No information av	/ailable			No information available			
		:						
Aspiration	hazard:		No informat	tion avai	lable			
Irritation a	and corrosion							
	Exposure 1	time	Species	5	Evaluatio	n M	ethod	Note
Skin corrosion/irritation		rmation	No informatio available	n -		No information available		No information available
Serious eye damage/irritation No available		rmation No information - available		n -	No inforr availa		nation Ible	No information available
Sensitizati	ion							
Dermal exposure:	No information	n availal	ole					
•								



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Sympt	oms rela	ted to the p	hysical, chemica	al and toxicologi	cal characteristic	CS	
Oral exposure:		Harmful if	swallowed.				
Dermal exposu	re:	Harmful by	/ inhalation and	l in contact with	skin.		
Inhalation expo	sure:	Harmful if	swallowed.				
Eye exposure:		Risk of seri	ious damage to	eyes.			
Repea	ted dose	toxicity (sub	oacute, subchro	nic, chronic)	,	,	
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No i availab	nformation ble	No information available	No information available	No information available	No information available	-
Subacute dermal	No i availab	nformation ble	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 i availab	nformation ble	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No i availab	nformation ble	No information available	No information available	No information available	No information available	-
Chronic oral	No i availab	nformation ble	No information available	No information available	No information available	No information available	-
Chronic dermal	No i availab	nformation ble	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	-
:							
Specif	ic target	organ toxici	ty – repeated e	xposure (STOT R	E):		
		Spe	ecific effects	Та	arget organ		Note
Subacute oral		No inform	ation available	No inform	nation available	-	
Subacute derm	al	No inform	ation available	No inform	nation available	-	



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Subacute in	nhalation	No information a	available	e	No information available	-			
Subchronic	c oral	No information a	available	9	No information available	-			
Subchronic	c dermal	No information a	available	2	No information available	-			
Subchronic	c inhalation	n No information available		9	No information available	-			
Chronic ora	al	No information a	available	9	No information available	-			
Chronic de	ermal	No information a	available	9	No information available	-			
Chronic inh	inhalation No information available			9	No information available	-			
CI	MR effects (ca	arcinogenicity, mu	tagenici	ty, rep	roductive toxicity)				
Carcinogenicity: No				ormati	on available				
Mutagenic	ity in-vitro:		No inf	ormati	on available				
Genotoxici	Genotoxicity: No info				information available				
Mutagenicity <i>in-vivo</i> : No inf				ormati	on available				
Germ cell r	mutagenicity:		No inf	ormati	on available				
Reproducti	ive toxicity:		No inf	ormati	on available				
	ummary of roperties:	evaluation of the	e CMR	No ir	nformation available				
440									
		other hazards:							
		upting properties:							
cc di Ai re Re	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.								
11.2.2. O	ther informat	ions:							
-									

SECTION 12. Ecologi	SECTION 12. Ecological information								
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	-			



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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 information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

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	No information available	information available No information available		-

12.3. Bioaccumulative potential

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

i ai cic	randon esemblent. In settino, water (109 New).								
Value	Concentration	рН	°C	Method	Evaluation	Note			
No	No information	_	-	No information	No information	No information			



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information available	ava	ilable			availa	able	ava	ilable		avail	able
Bio Value No informat available		No i	n factor (BCF) Species nformation lable		Metho			/aluatio ormatio	n	No inf	Note Formation
available		avaii	idule	avalle	ible		avallat	ле		avallal	Jie
Chr	onic ed	cotoxi	city	F							
Va	alue		Dose	Exposure time		Species	Met	hod	Evalua	tion	Note
Chronic toxi	onic toxicity on fish LC ₅₀		LC ₅₀			ormation ailable	No inform availal		No informa availab		-
	nronic toxicity on ustacea (Daphnia)		EC ₅₀			ormation ailable	No inform availa		No informa availab		-
12.4. Mo	bility ir	n soil									
			cted distribut	ion in enviror	nmenta	al compart	ments:				
			available								
	face te	nsion:		**							
	Value	-	°C	Concent	ration	<u> </u>	Method				Note
info	Lintermation intermation		No inform available	nation	No info	ormation ble		_			
Ads	sorptio	n / de	sorption								
Transport			efficient constant	log Kow	log Kow		Evaporation rate		Method		Note
Soil-water	No availa		information	No informa available		No inforravailable	mation	No i availa	nformati ble	on -	
Water-air	No		information	No informa	ation	No inform	mation	No i	nformati	on -	



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		available	available	available	available						
Soil-air		No information available	No information available	No information available	No information available	-					
12.5.	5. Results of PBT and vPvB assessment										
	No information available										
12.6.	End	ocrine disrupting propert	ies								
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.										
12.7.	Oth	er 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:
	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)		



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UN number:	Not subject to transport regulations.		
UN proper shipping name:	-		
Transport hazard class(es):	-		
Packing group:	-		
Environmental hazard(s):	-		
Special precautions for user:	-		
Transporting/shipment by rail (RI	D)		
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 inland	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:	-		
Transporting/shipment by sea (IN	MDG)		
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)			
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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Further information:	-

15.1.	ON 15. Regulatory information Safety, health and environment	nmental regulations/legislation specific for the substance or mixture			
	EU regulations				
	Authorization and/or rest	trictions 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 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, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessme	ent			
	None				

SECTIO	SECTION 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		



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Trading name:		METHYLENE	BLUE, C.I. 52015		
Product code:	MB-P-X**	Revision date:	21 Dec 2022	Version:	4

		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 (numbe	r and full text)	
	H: H302	Harmful if swallowed.	
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.	

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT