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Trading name:		<u> </u>			
Product code:	MB10X-OT-X**	Date of compilation:	13 June 2019	Version: 3	

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	METHYLEN	E BLUE 10	x CONCENTRATED	
	Chemical name:	-			
	Catalogue number:	MB10X-OT-	-X**		
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		Stock so	lution for staining in microbiology.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> dia medical device, registered at the Agency for Medicina Medical Devices and there is no reason to use it for o		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnos	t Ltd.	
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2	+385 1 2409997 +385 1 2404039	
	Telefax.:		+385 1 2		
	e-mail of competent p	person:	msds@b	oiognost.hr	
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection a	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	N 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regu	ulation (EC) No 12	72/2008 (CLP)			
	Hazard class and catego	ory code:	Hazard statements*:			
	Flam. Liq. 3		H226			
2.1.2.	Additional information					
	-					
*For ful	I text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	METHYLENE BLU	JE 10x CONCENTRATED			
	Identification number:					
	Authorization number:	-				



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	Hazard pictograms:	GHS02
	Signal word:	Warning
	Hazard statements:	H226 Flammable liquid and vapor
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P281 Use personal protective equipment as required.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

SECTION 3. Co	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- xxxx	≤ 40 %	ethanol	Flam. Liq. 2; H225				

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.			
		Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 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 for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			
	Following ingestion:	Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.			



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	Self-protection of the first aider:	-
4.2	Most important symptoms and eff	ects, both acute and delayed
	Following inhalation: Depending on concentration and exposure time, it may mucosa irritation, cough, and dyspnea.	
Following skin contact: Depending on concentration and exposure time, it main irritation, rash, skin drying and skin cracking.		Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.
4.3	Indication of any immediate medical attention and special treatment needed	
	-	

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	No information available			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Incomplete combustion of the product.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Do not contaminate the environment	ent with extinguishing media.			

SECTIO	TION 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:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2	Environmental precautions:				



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	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for cor	ntainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. 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:	Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal in	formation.		

SECTIO	DN 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks.			
	Measures to prevent aerosol and dust generatio	n:	Secure proper ventilation.			
	Measures to protect the environment:	Measures to protect the environment:				
	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 incom	patibilities				
	Technical measures and storage conditions:		htly closed and upright set containers in a ated storage roomsat temperatures ranging 25 °C.			
	Packaging materials:	Manufactu	cturer's original packaging.			
	Requirements for storage rooms and vessels: Keep aw tightly of		r from food and drink. Keep the containers sed.			
	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.				



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	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 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

8.1 Control pa	aramotors			otection				
8.1 Control pa	arameters			0.55		tional a	ove o sumo limit	
Substance		CA	AS No		•		exposure limit term values	Biological limit values
Sabstance		Ç,	13 110		ppı	m	mg/m³	biological illilic values
Ethanol		64	-17-5		1000		1900/-	-
		I		I		L		
Substance name:	-							
EC No:	-	CAS No):	_				
DNEL								
				In	dus	trial		
Route of	Acu	ıte		Acute			Chronic	Chronic
exposure:	effect	local	effect systemi		c		effect local	effect systemic
Oral	-		-			-		-
Inhalation	-		-			-		950 mg/m³ (ethanol)
Dermal	-		-		-			343 mg/kg (ethanol)
Critical physical par	rameters: s	solubility,	flamm	ability, co	rros	ivity:	-	
				Co	nsu	ımer		1
Route of	Acı			cute			Chronic	Chronic
exposure:	effect	local	effect	systemic		е	effect local	effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			114 mg/m³ (ethanol)
Dermal			-		-			206 mg/kg (ethanol)
PNEC								
Environmental protection target			PNEC					
Fresh water			0.96 mg/l (ethanol)					
Freshwater sediments				3.6 mg/kg (ethanol)				
Marine water				0.79 mg/l (ethanol)				
Marine sediments					nc	inform	nation available	



Food chain

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no information available

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roou cha	-OOG CHAIH		no information available		
Microorga	anisms in sewage treatment		no information available		
Soil (agric	cultural)		0.63 mg/kg (ethanol)		
Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering contro	ls			
	Substance/mixture related meas prevent exposure during identifi		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to prevexposure:	/ent	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. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment	nt			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection	<u>i</u>	-		
	Hand protection:		otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Break through time: > 480 min		
	Other skin protection:	During everyday work use cotton clothing (EN 340) and s footwear, such as rubber boots (EN 20345) or shoes that entire foot. In case of spilling hazard, use clothing made c impermeable material suitable for protection from liquid (Viton, PVC, himex) and footwear made from the same made.			
8.2.2.3.	Respiratory protection:	for org	Suitable mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) according to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure control	S			
	Substance/mixture related measures to prevent exposure:	See Se	ection 6		
		<u>-</u>			



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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

Information on basic	physical and	chemical properties	
		Value	Method
Physical state:		liquid	No information available
Colour:		blue	No information available
Odour:		mild	No information available
Odor threshold:		No information available	No information available
pH:		8.0 – 8.6	No information available
Melting point / freez	ing point;	No information available	No information available
Initial boiling point a range:	nd boiling	No information available	No information available
Flash point:		26 °C	No information available
Evaporation rate:		No information available	No information available
Flammability (solid, g	jas):	No information available	No information available
Upper/lower flamma explosive limits:	bility or	No information available	No information available
Vapour pressure:		No information available	No information available
Vapour 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: octanol/water (log K		No information available	No information available
Auto-ignition tempe	rature:	No information available	No information available
Decomposition temp	erature:	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
Other information			



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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:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.			
10.4	Conditions to avoid:	High temperatures, ignition sources, open flame.			
10.5	Incompatible materials:	Oxidants, acids, alkali metals.			
10.6	Hazardous decomposition products:	Non-degradable if used in the described manner.			

SECTION 11. Toxic	cological ir	nformation					
11.1 Information	on on toxico	ological effects					
Acute toxi	city:						
Route of exposure:	Method	d Species	Do	ose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure t	time	Results
Oral:	-	rat (ethano	ol)	LD ₅₀	-		7.060 mg/kg
Dermal:	-	-		-	-		-
Inhalation:	_	rat (ethanol) LC ₅₀ 4 h			20.000 mg/l		
Specific to	raot organ	toxicity single o	wpocuro (9	STOT SEV			
specific ta	irget organ	toxicity – single e Specific effects	xposure (3	Target	organ		Note
Oral:	No inform	nation available		No information		_	Note
Dermal:				No information		_	
Inhalation:		nation available		No information			
Initiation.	TTO IIIIOII	Tiation available		140 information	avanabie		
Aspiration	hazard:		No infor	mation available.			
: •							
Irritation a	and corrosic	on					
	E>	kposure time	Spec	cies Evaluat	ion Method	d	Note
Skin corrosion/irritation	-		-	- -	-	_	
Serious eye			-	-	-	-	
Sensitizati							
Skin sensitization:		No information a					
Respiratory sensitization: No information a			vailable.				



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Sympto	ms rela	ated to the ph	ysical, chemic	al and toxicolog	gical characterist	ics	
Oral exposure:		No informati	on available.				
Dermal exposure	:	No informati	on available.				
Inhalation expos	ure:	No informati	on available.				
Eye exposure:		No informati	on available.				
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	ı -
Subacute dermal	No availa	information able	No information available	No information available	No information available	No information available	٦ -
Subacute inhalation	No information available		No information available	No information available	No information available	No information available	٦ -
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available	۱ -
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	1 -
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	۱ -
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	ı -
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	ı -
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	ı -
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):		
			Specific effec	ts	Target o	rgan	Note
Subacute oral		No informa	tion available		No information	n available	-
Subacute dermal		No informa	tion available		No information	n available	-



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	,			: age == 0: =0			
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	te inhalation onic oral	No information available No information available	No information available No information available	_			
	onic dermal	No information available	No information available	_			
	onic inhalation	No information available	No information available				
Chronic		No information available	No information available				
	c dermal	No information available	No information available	_			
	cinhalation	No information available	No information available	-			
	CMR effects (c	arcinogenicity; mutagenicity; re	eproductive toxicity)				
	Carcinogenicit	y:	No information available				
	Mutagenicity i	n vitro:	No information available				
	Genotoxicity:		No information available No information available				
	Mutagenicity i	n vivo:					
	Germ cell mut	agenicity:	No information available				
	Reproductive 1	toxicity:	No information available				
	Summary of properties:	evaluation of the CMR	No information available				
11.2	Practical exper	iences:					
	Classification of		No information available				
	Other observa		No information available				
11.3	General notes:						

SECTION 12. Ecologic	SECTION 12. Ecological information									
12.1 Toxicity										
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC ₅₀	96 hours	-	-	-	-				
Crustacea:	EC ₅₀	48 hours	-	-	-	-				
Algae/aquatic plants	IC ₅₀	4 days	-	-	-	-				
Other organisms	-	-	-	-	-	-				
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				



Bioconcentration factor (BCF)

Species

Value

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Fish	ish 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 p	Algae/aquatic plants IC ₅₀		72 hours	No information available	No information available	No information available	-
Other organism	ıs	-	-	-	-	-	-
12.2 Persist	ence a	nd degrada	ability				
Abioti	degra	dation			1		
	De	gradation l	nalf-lives	Method	Evaluatio		Note
Marine water	No ir	No information available		No information available	No information available		
Fresh water	No ir	No intormation available		No information available	No informatio available	n -	
Air	No ir	l No intormation available		No information available	No informatio available	n -	
Soil	No ir	nformation	available	No information available	No information available		
Biodeo	gradatio	on					
% Degradation		Time	(days)	Method	Evaluatio	n	Note
No information available		No i available	nformation	No information available	No informatio available		nformation able
12.3 Bioacc	umulat	ive potenti	al				
	al_wate	r partition	coefficient (l	og Kow)			
Octano	JI-Wate						

Method

Evaluation

Note



Tradir	ng name	•			METHYL	ENE	BLUE 1	L0x COI	NCENT	TRATE	D	
Produ	ict code:	MB	10X-OT-X**		Date	of co	mpilati	on:	13 Jun	e 2019		Version: 3
	o information No information vailable available		ation	No info		n	No information available		on	-		
	Chron	is a set ovi	a:+									
	Chroni	c ecotoxi	City	Evn	osure							
	Value	9	Dose		ime	Spe	ecies	Metl	nod	Evalu	uation	Note
Chroni	ic toxicity	on fish	LC ₅₀	No infor	mation able	No inforr availa	nation ble	No inform availab		No inform availab		-
	ic toxicity cea (<i>Dapl</i>		EC ₅₀	No infor availa	mation able	No inforr availa	nation ble	No inform availab		No inform availab		-
12.4	Mobili	ty in soil										
	-	•	ted distributi	on in e	environme	ental c	ompart	ments:				
	No inf	ormation	available									
	Surfac	e tension:										
	Va	lue	°C	C	oncentrat	ion		Metho	od			Note
	No inform availab	ation i	No nformation available		informat iilable	ion	No inf availab	ormatio ole	n	-	-	
	Adsor	otion / de	sorntion									
Transp		A/D co	efficient constant	lc	og Kow	Ev	aporati	on rate		Method		Note
Soil-wa	ater :	lo vailable	information	No ir availa	nformatio able		o inform ailable	nation	No ir availa	iformati ible	ion	-
Water-	-air	lo vailable	information	No ir availa	nformatio able		o inform ailable	nation	No ir availa	iformati ible	ion	-
Soil-ai	r	lo vailable	information	No ir availa	nformatio able		o inform ailable	nation	No ir availa	iformati ible	ion	-
	1											
12.5	Results	s of PBT a	nd vPvB asses	sment								
	No inf	ormation	available									



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12.6	Other adverse effects								
	No information available								
SECTIO	N 13. Disposal considerati	ons							
13.1	Waste treatment method	ls							
13.1.1.		Product/Packaging disposal:							
	Submit for disposal to th Protection.	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.							
13.1.2.	Waste codes/waste design	gnations according to Law:							
	Packaging that contains	residual hazardous substances or is contaminated with hazardous substances							
13.1.3.	Waste treatment – releva	Waste treatment – relevant information:							
	No information available								
13.1.4.	Sewage disposal – releva	nt information:							
	Waste must not be dispo	sed of into the sewage system.							
13.1.5.	Other disposal recomme	ndations:							
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.							
13.1.6.	Relevant Community pro	visions:							
	-								
SECTIO	N 14 TRANSPORT INFORM								
	Transporting/shipment by								
UN num		1170							
	per shipping name:	Ethanol solution							
······	rt hazard class(es):	3							
Packing									
	mentally hazardous:	-							
Special	precautions for user:	- 							
UN num	Transporting/shipment by	rail (RID) 1170							
oia blob	per shipping name:	Ethanol solution							



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Transport hazard class(es):	3
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	/IDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (ICA	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTIO	ION 15. Regulatory information	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	EU regulations	
	Authorization and/or rest	trictions of use
	Authorizations:	-
	Restrictions:	-



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	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 9/13/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	ECTION 16. Other information		
16.1	Indication of changes:	-	
		PBT Stable, bioaccumulative and toxic	
		vPvB Strongly stable and strongly bioaccumulative.	
16.2	Abbreviations and acronyms:	LD ₅₀ Lethal dose, 50%	
		LC ₅₀ Lethal concentration, 50%	
		TCOJ 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)		
Classification		Classification procedure	
_		-	
16.5.	Relevant H statements (number and full text)		
	H: H225	Highly flammable liquid and vapour.	
	H226	Flammable liquid and vapour.	
16.6.	Training advice:	-	



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Trading name:	METHYLENE BLUE 10x CONCENTRATED				
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		** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with
		instructions for use or improper use of the product described in this
		material safety data sheet.

ANNEX: Exposure scenario resulting to chemical safety assessment
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