

According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading name:	М	ETHYLENE BLUE LO	EFFLER'S REAGENT		
Product code:	MBL-OT-X**	Revision date:	23 Dec 2022	Version:	9

1.1	Product identifier			e and of the company/undertaking
	Trading name:	METHYLEN	E BLUE LC	DEFFLER'S REAGENT
	Chemical name:	_		
	Catalogue number:	MBL-OT-X	**	
1.2	J	es of the subs	tance or n	nixture and uses advised against
	Uses:		For stair	ning in microbiology and histology.
	Uses advised against:		Only the	e identified uses are advised. Unsuitable for human option.
	Reason why uses advis	sed against:	device, ı	duct is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes.
1.3	Details of the supplier	of the safety	data shee	t
	Supplier:		BioGnos	st Ltd.
	Address:		Medjug	orska 59, Zagreb
	Telephone number:		+385 1 2	2409997
	Telefax.:		+385 1 2	2404039
	e-mail of competent p	erson:	msds@k	piognost.hr
	National contact:		-	
1.4	Emergency telephone	number		
	National Protection ar	d Rescue Dir	ectorate:	112
	Medical information:			+385 1 2348 342
	Other information:			-

SECTIO	ON 2. Hazards identification		
2.1	Classification of the substan	ce or mixture	
2.1.1	Classification according to F	Regulation (EC) No 12	272/2008 (CLP)
	Hazard class and cat	tegory code:	Hazard statements*:
	Flam. Liq. 3		H226
2.1.2.	Additional information		
	-		
*For fu	ıll text of Hazard- and EU Haza	ord-statements: see S	ECTION 16
2.2	Label elements		
	Product identification:	METHYLENE BL	JE LOEFFLER'S REAGENT
	Identification number:	-	
	Authorization number:	-	



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	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.
	Precautionary statements:	P210 Keep away from heat, hot sparks, open flames and other ignition sources. No smoking.  P233 Keep container tightly closed.  P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	The product has no other kno	wn specific hazards for human or environment.
	Results of PBT and vPvB asses PBT or vPvB substances.	sment: Based on available data, the product does not contain any
	Endocrine disrupting property	y: Based on available data, does not contain endocrine disruptors.

SECTION 3. Co	mposition/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- 0147	10 – 20 %	ethanol	Flam. Liq. 2; H225

SECT	ION 4. First aid measures	
4.1	Description of first aid measu	res
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificial respiration. In case of complaints call a physician.
	Following skin contact:	Remove the contaminated clothes. Wash the skin surface under plenty of running water. Seek medical assistance if the symptoms of irritation remain.



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	Following eye contact:	In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for at least 10 minutes). If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Place the victim in a comfortable position. Rinse the mouth with clean water. If the victim is conscious induce vomiting.  Do not give the victim anything orally, and do not induce vomiting if the victim is unconscious or suffers from convulsions.
	Self-protection of the first aider:	-
4.2	Most important symptoms and ef	fects, both acute and delayed
	Following inhalation:	Inhalation of larger quantities may affect the central nervous system.
	Following skin contact:	Prolonged or repeated dermal contact may cause the defatting and dryness of the skin.
	Following eye contact:	May irritate the eyes.
	Following ingestion:	Ingestion of larger quantities may affect the central nervous system.
4.3	-	cal attention and special treatment needed ne body, obtain medical treatment (gastric lavage, activated carbon).

SECTI	ON 5. Firefighting measures	
5.1	Extinguishing media	
	Suitable extinguishing media:	Extinguishing powder, alcohol-resistant foam, water, carbon-dioxide.
	Unsuitable extinguishing media:	Water with full jet.
5.2	Special hazards arising from the su	ubstance or mixture
	Hazardous combustion products:	Highly flammable liquid and vapour. In case of fire, smoke, and other combustion products (carbon monoxide, carbon dioxide) may be formed, the inhalation of such combustion products can have serious adverse effects on health. Vapours may form an explosive mix with air. Vapours may be ignited by open flames, sparks, electrical equipment, or static charge. Vapours may travel to great distances, ignite in contact with ignition sources and flash back to the primer source (container). Vapours of ethyl alcohol mix greatly with air and may form an explosive mixture. Air containing 3.3 – 19 % ethyl alcohol vapours may explode in contact with ignition sources. Diluting the mixture with large amounts of water results in the loss of its flammability (around 10 % concentration of ethyl alcohol).
5.3	Advice for firefighters	
	Wear full protective clothing and s water spray. Use water spray to dis	elf-contained breathing apparatus. Cool the fire affected containers with ssipate alcohol vapours.
5.4	Additional information	
	-	



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SECTIO	ON 6. Accidental release measu	
6.1	Personal precautions, protective	e 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.
	Emergency procedures:	Mark the area using proper signs.
6.1.2.	For emergency responders:	
	ventilation. Vapours may accur	and clothing and inhaling gases, vapours and aerosols. Ensure adequate mulate at floor level in low and confined spaces. Remove all heat, ignition chines. Ignition spark arrestor must not be operated in the danger area. Use the risk of slipping.
6.2	Environmental precautions:	
		resulting waste according to the applicable environmental regulations. Do
	· ·	e resulting waste to enter sewers/soil/surface or ground water. Notify the dance with local law in the case of environmental pollution immediately.
6.3	· ·	e resulting waste to enter sewers/soil/surface or ground water. Notify the dance with local law in the case of environmental pollution immediately.
6.3 6.3.1.	respective authorities in accord	e resulting waste to enter sewers/soil/surface or ground water. Notify the dance with local law in the case of environmental pollution immediately.
	respective authorities in accord  Methods and material for cont  Bunding, covering of drains;	e resulting waste to enter sewers/soil/surface or ground water. Notify the dance with local law in the case of environmental pollution immediately.
6.3.1.	methods and material for cont Bunding, covering of drains; capping procedures:	e resulting waste to enter sewers/soil/surface or ground water. Notify the dance with local law in the case of environmental pollution immediately.  Sainment and cleaning up  Sand protective barrier or barriers made of similar materials.  Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal.  During the collection, placement, disposal of the waste, wear appropriate individual protective equipment.  Flush the remains with plenty of water. The product loses its flammability, if
6.3.1.	methods and material for cont Bunding, covering of drains; capping procedures:  Cleaning up:	e resulting waste to enter sewers/soil/surface or ground water. Notify the dance with local law in the case of environmental pollution immediately.  Sand protective barrier or barriers made of similar materials.  Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal.  During the collection, placement, disposal of the waste, wear appropriate individual protective equipment.  Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution).  Secure proper ventilation. Do not use incompatible materials (see Section

SECTIO	SECTION 7. Handling and storage		
7.1	Precautions for safe handling		
7.1.1.	Protection measures		



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	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use non-sparkling tools and equipment.	
	Measures to prevent aerosol and dust generatio	n:	Ensure adequate ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
	Other measures:		Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. The	oroughly was	sh hands after work and before eating.	
7.2	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	away from unopened	well-ventilated place, protected from sunlight, a sources of heat and ignition, in its original, and hermetically sealed packaging, away dizing agents, food, feed and articles of ion.	
	Packaging materials:	Manufacturer's original packaging.  Keep away from food and drink. Keep the containers tightly closed.		
	Requirements for storage rooms and vessels:			
	Advices for storage equipment:	be resistar	ge must be made of hard material; floors must nt to chemicals. There must be no drain that eads into sewage system. Secure proper n.	
	Further information on storage conditions:	and do n	ace the unused material in the storage room not use empty containers for storing other. Do not store with incompatible materials (see 0).	
7.3	Specific end use(s)			
	Recommendations:	-		
	Industrial sector specific solutions:	-		

SECTION 8. Exposure controls/personal protection					
8.1 Control parameters					
Substance	CAS No		exposure limit term values	Biological limit values	
		ppm	mg/m³	_	
Ethanol	64-17-5	1000/-	1900/-	-	
		•			
Substance name: -					



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EC No:		-	CAS No	:	-				
DNEL									
					In	dustria	I		
Route of		Acu	ıte		Acute		Chron	nic	Chronic
exposure:		effect	local	effect systemic		С	effect lo	ocal	effect systemic
Oral		-		-		-			-
Inhalation		1900 mg (ethanol)		-		-			380 mg/m³ (ethanol)
Dermal		-		-		-			343 mg/kg (ethanol)
Critical phy	sical par	ameters: s	olubility,	flamm	nability, co	rrosivity	<i>/</i> : -		
					Co	nsume	r		
Route of		Ad	cute		Acute		Chron	nic	Chronic
exposure:		effec	t local	effe	ect systemi	ic	effect lo	ocal	effect systemic
Oral		-		-		-			87 mg/kg bw/day (ethanol)
Inhalation		950 m (ethan	-	-		-			114 mg/m³ (ethanol)
Dermal		-		-		-			206 mg/kg (ethanol)
PNEC						_			
Environmer	ntal prot	ection tar	get			PNEC			
Fresh water						0.96 mg/l (ethanol)			
Freshwater	sedimer	nts				3.6 mg/kg (ethanol)			
Marine wat	er					0.79 mg/l (ethanol)			
Marine sed	iments					2.9 mg/kg (ethanol)			
Food chain						380-720 mg/kg (ethanol)			
Microorgan	isms in	sewage tr	eatment			580 mg/l (ethanol)			
Soil (agricu	ltural)					0.63 mg/kg (ethanol)			
Air						no information available			
8.2	Exposu	ire contro	ls						
8.2.1.	Appropriate engineering controls								
	Substance/mixture related measures to prevent exposure during identified uses:			conce conce existir	ntration lim ntration lev ng scientific	nit it is the vels down to and techr	naterial with no controlled e employer's duty to keep o a minimum achievable by nological means, where the no harm to workers.		
	Structu exposu	ıral measu ıre:	ires to pr	event		In acc	ordance wit	h Section 7.	



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	Organisational measures to preve exposure:	nt	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exp	oosure:	In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Use according to general application methods and with adequate ventilation.		
	•		Use non-sparkling ventilation system.  Provide appropriate personal protective equipment, safety		
			shower and eye-wash station.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Use appropriate, chemical-proof protective glasses/face shield (ISO 16321-1:2022, EN 166).			
8.2.2.2.	Skin protection				
	Hand protection:	Use ap	appropriate, chemical-resistant protective gloves (EN 374).		
	Other skin protection:	Use appropriate protective clothing.			
8.2.2.3.	Respiratory protection:	concer in the contac	e of normal usage and ventilation, it is not necessary. If ntration of ethyl alcohol exceeds occupational exposure limits air, use a self-contained breathing apparatus. For short at and if the oxygen content of the air is greater than 18 %, use ective gas mask with filter A (EN 14837/A1).		
8.2.2.4.	Thermal hazards:	No the	ermal hazards known.		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		
	Structural measures to prevent exposure:	Use mo	odern equipment.		
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.		
	Technical measures to prevent exposure:	See Se	ection 6		

SECTI	SECTION 9. Physical and chemical properties				
9.1	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	No information available		
	Colour:	blue	No information available		
	Odour/odour threshold:	ethanol like/no information available	No information available		
	Melting point / freezing point:	No information available	No information available		



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	-		
9.2	Other information		
	Particle characteristics:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Solubility:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	pH:	7.0 – 8.0 (20°C)	No information available
	Decomposition temperature:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Flash point:	40 °C	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flammability:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available

SECTIO	SECTION 10. Stability and reactivity				
10.1	Reactivity:	See Section 10.5.			
10.2	Chemical stability:	Stable within normal temperature and general work conditions.			
10.3	Possibility of hazardous reactions:	See Section 10.5.			
10.4	Conditions to avoid:	Keep away from heat, sparks, open flames, strong heating and ignition sources. No smoking.			
10.5	Incompatible materials:	Strong oxidizing agents (inorganic strong acid, nitric acid, perchlorates, peroxy compounds, perchloric acid, permanganates etc.), alkali metals, alkali earth metals.			
10.6	Hazardous decomposition products:	Carbon monoxide and carbon dioxide.			

SECTIO	N 11. Toxic	ological info	rmation								
11.1	Information	n on hazard c	lasses as defined in	Regulation (EC) No 127	/2/2008						
	Acute toxic	tute toxicity:									
Route o		Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure time	Results					
Oral:		-	rat (ethanol)	LD <sub>50</sub>	-	7.060 mg/kg					
Dermal:		-	rabbit (ethanol)	LD <sub>50</sub>	-	>20.000 mg/l					



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Inhalation:		-	rat (ethanol)		LC <sub>50</sub>	)	4 h	2	>8.000 mg/l
Specific	c targe	t organ toxicit	v – single exp	osure (S	TOT SE)				
<u> </u>			ific effects			Target or	gan	1	Note
Oral:	N	lo information			No info	ormation av		-	
Dermal:	٨	lo information	available		No info	ormation av	vailable	-	
Inhalation:	٨	lo information	available		No info	ormation av	vailable	-	
Aspirat	ion ha	zard:	N	No infor	mation a	vailable.			
Irritatio	n and	corrosion							
		Exposur	e time	Spec	ies	Evaluatio	n Method		Note
Skin corrosion/irritation:			-			-	-	-	
Serious eye damage/irritation						-	_	<b>-</b>	
C : + : -	4!								
Skin sensitizatio		No inf	ormation avai	lablo					
Respiratory sens			ormation avai						
Trespiratory series	J.C.Z.G.C.	J.I. 110 III	omation avai	14510.					
Sympto	oms re	lated to the pl	nysical, chemic	cal and t	oxicolog	jical charac	teristics		
Oral exposure:				nol poiso	oning. In	case of swa	dizziness, dru allowing great e may lead to	•	nausea and
Dermal exposur	e:	After prolon cracking of s		ated exp	oosure s	symptoms	may include:	defatting,	dryness and
Inhalation expos	sure:	Inhalation of membranes.	great quantiti	es may o	cause diz	zziness, eup	phoria and milo	l irritation o	of the mucous
Eye exposure:		May cause ir	ritation and re	edness.					
1									
Repeat	ed dos	se toxicity (sub	acute, subchr	onic, chi	ronic)				
		Dose	Exposure time	Speci	es	Method	Evalua	tion	Note
Subacute oral	No avai	information lable	No information available	No inforr availa	nation ble	No informat available	ion availah	ormation ole	-



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Subacute dermal	No availa	information able	No information available	No information available	No information available	No inform available	nation	-
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No inform	nation	
Subchronic oral	No availa	information able	No information available	No information available	No information available	No inform available	nation	<b>–</b>
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available		-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No inform available	No information available	
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available		_
Chronic dermal	No availa	information able	No information available	No information available	No information available	No inform	No information available	
Chronic	No availa	information able	No information available	No information available	No information available	No inform	nation	-
inhalation			available		G. T. G. T. G. T. G.			
<u> </u>	target	organ toxicit		xposure (STOT				
<u> </u>	target	organ toxicit	y – repeated e	xposure (STOT	RE):	rgan		Note
Specific	target			•			_	Note
<u> </u>		No informa	y – repeated e Specific effec	•	RE): Target o	n available	-	Note
Specific Subacute oral Subacute derma	l	No informa	y – repeated e Specific effec ation available	•	RE): Target o	n available n available		Note
Specific Subacute oral	l	No informa No informa No informa	y – repeated e Specific effec ition available ition available	•	RE): Target o No information	n available n available n available		Note
Specific Subacute oral Subacute derma Subacute inhala	l	No informa No informa No informa No informa	y – repeated e Specific effec ation available ation available	•	RE):  Target of the No information of the No	n available n available n available n available	-	Note
Specific Subacute oral Subacute derma Subacute inhalat Subchronic oral Subchronic dern	l :ion nal	No informa No informa No informa No informa No informa	y – repeated e Specific effect ation available ation available ation available	•	RE):  Target of the No information No information No information No information No information	n available n available n available n available n available	-	Note
Specific Subacute oral Subacute derma Subacute inhalat Subchronic oral Subchronic dern Subchronic inha	l :ion nal	No informa No informa No informa No informa No informa No informa	y – repeated e Specific effect ation available ation available ation available ation available	•	RE):  Target of No information	n available n available n available n available n available n available	-	Note
Specific Subacute oral Subacute derma Subacute inhalat Subchronic oral	l :ion nal	No informa	y – repeated e Specific effect ation available ation available ation available ation available ation available	•	RE):  Target of No information	n available n available n available n available n available n available	-	Note



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	Mutagenicity in vitro:	Bas	sed on available data, the classification criteria are not met.						
	Genotoxicity:	Based on available data, the classification criteria are not met.							
	Mutagenicity in vivo:	Bas	sed on available data, the classification criteria are not met.						
	Germ cell mutagenicity:	Bas	sed on available data, the classification criteria are not met.						
	Reproductive toxicity:	Bas	sed on available data, the classification criteria are not met.						
	Summary of evaluation of the CN properties:	CMR Based on available data, the classification criteria are no met.							
11.2	Information on other hazards:								
11.2.1.	Endocrine disrupting properties:								
	Based on available data, does not contain endocrine disruptors.								
11.2.2.	Other informations:								
	-								

SECTION 12. Ecologic	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	golden orf	No information available	8.140 mg/l /48 h (ethanol)	-
Crustacea:	EC <sub>50</sub>	48 hours	daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	algae	No information available	5.000 mg/l / 7d (ethanol)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	_



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Algae/aquatic	plants	IC <sub>50</sub>	72 hours		No information available	No informati available	on i	o information vailable	-
Other organisr	ns	-	-	-	-	-	-		-
		ind degrada	bility						
Abiot		adation	16.11	**************************************					
	De	egradation h	nalt-lives		Method		uation		Note
Marine water	No i	nformation	available		information ilable	No inforr available	nation	-	
Fresh water	No i	nformation	available		information ilable	No inforr available	No information available		
Air	No i	nformation	available		information ilable	No inforr available	mation	-	
Soil	No i	nformation	available		information ilable	No inforr	mation	-	
% Degradat No information available				Method  No information available		Evaluation  No information available		No inform available	Note nation
		tive potenti							
Value		er partition of the contraction	pH	°C	Method		Evaluatio	nn .	Note
Log Pow: ~ 0.32	-	icentiation	•	-	-	-	Lvaluatio	The pro	oduct does no umulate
Bioco	ncentra	ntion factor	(BCF)						
Value		Spec	es		Method	Eva	aluation		Note
BCF: 0.66		lo ir vailable	formation		information lable	No info availabl	rmation e	-	



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	Chronic	ecoto	xicity									
	Value		Dose	Exposure time	Spe	cies	Meth	od	Ev	aluation	N	lote
Chroni	c toxicity	on fish	LC <sub>50</sub>	No information available	No inforn availa		No informa availab			rmation lable	-	
	c toxicity cea ( <i>Daph</i>		EC <sub>50</sub>	No information available	No inforn availa		No informa availab			rmation lable	-	
12.4	Mobilit	v in soi	1									
12.1			dicted distributi	on in environm	ental c	omnart	ments:					
		•	n available	CIT III CIIVII OIIIII	Circui Ci	o i i pai t						
	Surface											
	Valu		°C	Concentra	tion	Method				Note		
	No No information available available		No information available		No information available			-				
	Adsorn	tion / c	lesorption		ř							
Transp	<u> </u>	1	o coefficient	log Kow	Fv	aporati	on rate		Metho	nd	No	ıte.
Папър		Hen	ry's constant			•		Method				
Soil-wa	ater	No availa	information ble	No information available		inform ailable	ation	No ir availa	nform able	ation	-	
Water-	air	No availa	information ble	No information		inform ailable	ation	No ir availa	nform able	ation	-	
Soil-air		No availa	information ble	No information		inform ailable	ation	No ir availa	nform able	ation	-	
12.5	D  t -	- f DDT										
12.5			and vPvB asses		ot conta	ain anv	PBT or vi	PvB su	bstan	ces.		
	Dasca C	avan	Gata, tile p			diiy	. 2. 0. 1	5 50	-5001			
12.6.	Endocri	ne disr	upting properti	es								



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12.7.	Other adverse effects		
	Do not let the product or it	s residues reach sewer system, waterways and soil.	
SECTIO	N 13. Disposal consideration	ons	
13.1	Waste treatment method	s	
	:		
13.1.1.	Product/Packaging dispo	sal:	
	Submit for disposal to the Protection.	e legal person authorized by the Ministry of Environmental and Nature	
13.1.2.	Waste codes/waste desig	nations according to Law:	
	Packaging that contains r	residual hazardous substances or is contaminated with hazardous substances	
13.1.3.	Waste treatment – releva	nt information:	
	No information available		
13.1.4.	Sewage disposal – releva	nt information:	
	Waste must not be disposed of into the sewage system.		
13.1.5.	Other disposal recommendations:		
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors by in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Unused product residues may be	
13.1.6.	1.6. Relevant Community provisions:		
	Disposal must be made a	ccording to official regulations.	
SECTIO	N 14 TRANSPORT INFORM	IATION	
	Transporting/shipment by i	road (ADR)	
UN nun	nber:	1170	
UN pro	per shipping name:	Ethanol solution	
Transpo	ort hazard class(es):	3	
Packing	group:	III	
Environ	mentally hazardous:	-	
Special	precautions for user:	-	
	Transporting/shipment by I	rail (RID)	
UN nun	nber:	1170	



#### According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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UN proper shipping name:		Ethanol solution
Transport hazard class(es):		3
Packing group:		III
Environmentally hazardous:		-
Special precautions for users		-
Inland waterway tra	ansport (ADN)	
UN number:		1170
UN proper shipping name:		Ethanol solution
Transport hazard class(es):		3
Packing group:		III
Environmentally hazardous:		-
Special precautions for users	· ·	-
Transporting/shipm	nent by sea (I	MDG)
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/shipm	nent by air (IC	AO-TI/IATA-DGR)
UN number:		1170
UN proper shipping name:		Ethanol solution
Transport hazard class(es):		3
Packing group:		III
Environmentally hazardous:		-
Special precautions for users		-
Further information:	olume is not s ATA: Special P	rovision 144 – An aqueous solution containing 24% or less alcohol by subject to classification. rovision A58 - An aqueous solution containing 24% or less alcohol by subject to classification.

#### **SECTION 15. Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



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	EU regulations		
	Authorization and/or res	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; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).	
		dangerous substances, mixtures and articles (Annex XVII);	
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-quideline)		
	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 assessme	ent	
	None		

SECTION 16. Other information	
16.1 Indication of changes:	-



### SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006

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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:	Manufacturer's MSDS file.		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classifi	cation	Classification procedure		
_		-		
16.5.	Relevant H statements (num	ber and full text)		
	H: 225	Highly flammable liquid and vapour.		
	226	Flammable liquid and vapour.		
16.6.	Training advice:	-		
16.7.	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.		

ANNEX: Exposure scenario resulting to chemical safety assessment
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