

TB-STAIN HISTO KIT

The kit contains:

TB Carbol Fuchsin reagent
TB Decolorizer
Methylene Blue Loeffler reagent



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

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Trading name:	TB CARBOL FUCHSIN REAGENT				
Product code:	TBC-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

1.1	Product identifier				
	Trading name:	TB CARBOL	FUCHSIN	REAGENT	
	Chemical name:	-			
	Catalogue number:	TBC-OT-X**	ŧ		
1.2	Relevant identified use	es of the subst	tance or n	nixture and uses advised against	
	Uses:		For use	in TB-Stain Cold, TB-Stain Hot kit and TB-Stain Quick kits.	
	Uses advised against:		Only the	e 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 the safety	data shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:	Telephone number:		+385 1 2409997	
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:	National contact:			
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	1 Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category code: Hazard statements*:				
	Flam. Liq. 3	H226			
	Muta. 2	H341			
	Acute Tox. 3	H331			
	Acute Tox. 3	H311			
	Acute Tox. 3	H301			
	Skin. Corr. 1B	H314			
	STOT RE 2	H373			
2.1.2.	Additional information				
	-				
*For fu	Ill text of Hazard- and EU Hazard-statements: se	ee SECTION 16			



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2.2	Label elements	
	Product identification:	TB CARBOL FUCHSIN REAGENT
	Identification number:	-
	Authorization number:	-
	Hazard pictograms:	GHS02 GHS05 GHS06 GHS08
	Signal word:	Danger
	Hazard statements:	 H226 Flammable liquid and vapor. H314 Causes severe skin burns and eye damage. H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. H341 Suspected of causing genetic defects. H373 May cause damage to organs through prolonged or repeated exposure.
	Precautionary statements:	P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	



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Endocrine Disrupting Properties:

No known endocrine disrupting properties

Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.

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- 43-0147	10 - 20 %	ethanol	Flam. Liq. 2; H225	
107-21-1/ 203-473-3/ 603-027-00-1	-	10 - 20 %	ethylene glycol	Acute Tox. 4; H302	
108-95-2/ 203-632-7/ 604-001-00-2	01-2119471329- 32-xxxx	4 -5 %	phenol	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Corr. 1B; H314 Muta. 2; H341 STOT SE 2; H373	

SECTI	ON 4. First aid measures	SECTION 4. First aid measures			
4.1	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. 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 mouth thoroughly with 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.			
	Self-protection of the first aider:	-			
4.2	Most important symptoms and effects, both acute and delayed				



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	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
	Following skin contact:	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 medi	cal attention and special treatment needed
	-	

SECTION	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Water, foam, dry powder, CO ₂			
	Unsuitable extinguishing media:	No information available			
5.2	Special hazards arising from the su	ubstance or mixture			
	Hazardous combustion products:	Mixture with combustible ingredients. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire. Vapours are heavier than air and may spread along floors.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit	compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do no contaminate the environment with extinguishing media.				

SECTIO	ECTION 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. Keep away from ignition sources.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in ca (see Section 8).	se of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				



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	Do not let product enter drains. Risk of explosion.				
6.3	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures: Cover drains. Collect, bind, and pump off spills.				
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:	Secure proper ventilation. 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	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal in	formation.			

SECTIO	ON 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 open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Do not smoke.		
	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:		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 incom	patibilities			
	Technical measures and storage conditions:	well ventila	phtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	ırer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away	r from food and drink. Keep the containers sed.		



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	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:	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:	-

SECTION 8. Expos	ure contr	ois/perso	nai prote	ction				
8.1 Control pa	arameters							
Substance		CAS No			Occupational exposure limit values/short term values		Biological limit values	
				pp	om	mg/m³		
Ethanol		64	-17-5	100	00/-	1900/-		-
Ethylene glycol		107	'-21-1	20/	/40	52/104		
Phenol		108	3-95-2	2/	/4	8/16		of creatinine (0.14 creatinine), end of y excretion
Substance name:	-							
EC No: -		CAS No	lo: -					
DNEL								
				Indu	strial			
Route of exposure:	Acı effect		Acu effect sy			Chronic effect local		Chronic effect systemic
Oral	-		-		-		-	
Inhalation	1900 mg (ethanol	•	-		35 mg/ (ethyle	/kg ne glycol)		g/m³ (ethanol) m³ (phenol)
Dermal	-		-		-		106 m	g/kg (ethanol) g/kg (ethylene glycol ng/kg (phenol)
Critical physical par	rameters:	solubility,	flammabil	ity, corro	sivity:	-		
				Cons	umer			



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Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic	
Oral		,		87 mg/kg (ethanol)	
Oral	-	-	-	0.5 mg/kg (phenol)	
Inhalation	950 mg/ m³ (ethanol)	-	7 mg/kg (ethylene glycol)	114 mg/m³ (ethanol) 0.452 mg/m³ (phenol)	
				206 mg/kg (ethanol)	
Dermal	-	-	-	0.5 mg/kg (phenol)	
				53 mg/kg (ethylene glycol)	
PNEC					
Environmental protection	ction target		PNEC		
			0.96 mg/l (ethanol)		
Fresh water			10 mg/l (ethylene glycol)		
			0.0077 mg/l (phenol)		
			3.6 mg/kg (ethanol)		
Freshwater sediment	S		37 mg/kg (ethylene glycol)		
			0.09125 mg/kg (phenol)		
Marina			0.79 mg/l (ethanol)		
Marine water			1 mg/l (ethylene glycol) 0.00077 mg/l (phenol)		
			-		
Marine sediments			2.9 mg/kg (ethanol)3.7 mg/kg (ethylene glycol)		
Marine seaments			0.00915 mg/kg (phenol)		
Food chain			380-720 mg/kg (ethanol)		
			580 mg/l (ethanol)		
Microorganisms in se	ewage treatment		199.5 mg/l (ethylene glycol)		
.			2.1 mg/l (phenol)		
			0.63 mg/kg (ethanol)		
Soil (agricultural)			1.53 mg/kg (ethylene glycol)		
_			0.136 mg/kg (phenol)		
Air			no information available		
8.2 Exposure	e controls				
8.2.1. Appropr	riate engineering (controls			
	ce/mixture related exposure during i		Use the product in well vent protective equipment. Do no workspace.	-	



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	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	Secure proper workspace ventilation in order to ker t exposure: concentration levels in air below permitted levels. S stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment				
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				
	Hand protection:	Regula Full co Splash	Glove material: butyl rubber Glove thickness: 0.70 mm Break through time: > 480 min contact: Gloves material: nitrile rubber Glove thickness: 0.40 mm Break through time: > 120 min		
	Other skin protection:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ing to EN 14387) used when concentration levels exceed		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		
	Structural measures to prevent exposure:	Use m	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	ction 6		



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Information on basic physical and o	chemical properties			
	Value	Method		
Physical state:	liquid	No information available		
Colour:	dark pink	No information available		
Odour/odour threshold:	phenol like/no information available	No information available		
Melting point / freezing point:	No information available	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		
Lower and upper explosion limit:	No information available	No information available		
Flash point:	48°C	No information available		
Auto-ignition temperature:	No information available	No information available		
Decomposition temperature:	No information available	No information available		
рН:	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		

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 (room temperature).						
10.3	Possibility of hazardous reactions:	No information available						
10.4	Conditions to avoid:	Heating.						
10.5	Incompatible materials:	No further relevant information available.						
10.6	Hazardous decomposition products:	No dangerous decomposition products known.						



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11.1 Information	ological infor		defined in	Regu	lation (F(C) No 1272/200	8 8	
Acute toxic		13303 43	defined in	ricgu	iation (Et	2) 110 1212/200	0	
Route of exposure:	Method	Species LD ₅₀ /		Dose D ₅₀ /LC	₅₀ or 1	Exposure time	Results	
Oral:	-	ra	t	LD ₅₀)	_		mg/kg (ethanol) ng/kg (ethylene glycol)
Dermal:	-	ra	t	LD ₅₀)	-		mg/kg (ethylene glycol) g/kg (phenol)
Inhalation:	-	ra	t	LC ₅₀)	4 h	124.7 r	ng/l (ethanol)
Specific tar	get organ toxi	city – si	ngle expos	sure (S	TOT SE):			
	Sp	ecific ef	fects			Target organ		Note
Oral:	No informati	on avail	able	ole No ir		ormation available		-
Dermal:	No informati	on avail	able	ble No in		nformation available		-
Inhalation:	ble No inf			nformation available -				
!								
Aspiration I	nazard:		No	inforr	nation av	vailable.		
Irritation ar	nd corrosion	. 4:	C i	г.		N/a+la=al		Nete
Skin	Exposure	ume	Species in vitro	EV	aluation	Method		Note
corrosion/irritation:	-		study	-		OECD 431	cause	es burns (phenol)
Serious eye damage/irritation	-		rabbit	-		OECD 405 cor		sive (phenol)
Sensitizatio	n							
Skin sensitization:	No	informa	tion availa	ble.				
Respiratory sensitiza	tion: No	informa	tion availa	ble.				
					·			
Symptoms	related to the	physica	l, chemical	and t	oxicolog	ical characterist	ics	
Oral exposure:	No inform	ation av	ailable.					
Dermal exposure:	No inform	ation av	ailable.					
Inhalation exposure:	No inform	ation av	ailable.					
		. •	ailable.					



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		Dose	Exposure time	Species	Method	Evaluation	n Note
Subacute oral	No ir availat	nformation ble	No information available	No information available	No information available	No information	on -
Subacute dermal	No ir availat	nformation ble	No information available	No information available	No information available	No informatio available	on -
Subacute inhalation	No information available		No information available	No information available	No information available	No informatio available	on -
Subchronic oral	No information available		No information available	No information available	No information available	No information available	on -
Subchronic dermal	No information available		No information available	No information available	No information available	No information available	on -
Subchronic inhalation	No information available		No information available	No information available	No information available	No informatio available	on -
Chronic oral	No ir availat	nformation ble	No information available	No information available	No information available	No informatio available	on -
Chronic dermal	No ir availat	nformation ble	No information available	No information available	No information available	No informatio available	on -
Chronic inhalation	No ir availat	nformation ble	No information available	No information available	No information available	No information	on -
Coosific	toract	raan tayisit	v repeated a	TOT2) enurs (STOT	DE).		
Specific	target c	ngan toxicit	y – repeated e Specific effec	xposure (STOT	Target o	rgan	Note
Subacute oral		No informa	tion available		No information		-
Subacute derma			tion available		No information		-
Subacute inhalat			tion available		No information		-
Subchronic oral		No informa	tion available		No information available		-
Subchronic derm	nal	No informa	tion available		No information	n available	-
Subchronic inhal	ation	No informa	tion available		No information	n available	_



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Chronic	oral	No information available		No information available	-			
Chronic	dermal	No information available		No information available	-			
Chronic	inhalation	No information available		No information available	-			
	CMR effects	(carcinogenicity; mutagenicity	y; reprod	ductive toxicity)				
	Carcinogenic	ity:	Based on available data, the classification criteria are not met.					
	Mutagenicity	ı in vitro:	Based o	on available data, the classification c	riteria are not met.			
	Genotoxicity	:	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.					
	Mutagenicity	ı in vivo:						
	Germ cell mu	utagenicity:						
	Reproductive	e toxicity:	Based on available data, the classification criteria are not met.					
	Summary coproperties:	of evaluation of the CM	CMR Based on available data, the classification criteria are not met.					
	<u>i</u>		<u>i</u>					
11.2	Information of	on other hazards:						
11.2.1.	Endocrine dis	srupting properties:						
	No known endocrine disrupting properties that affect human health.							
11.2.2.	Other inform	nations:						
	_							

SECTION 12. E	cological	information							
12.1 Toxicity									
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC ₅₀	96 hours	Leuciscus idus (Golden orfe; ethanol) Oncorhynchus mykiss (rainbow trout; phenol)	-	-	8.140 mg/l (ethanol) 72.860 mg/l (ethylene glycol) 5.0 mg/l (phenol)			
Crustacea:	EC ₅₀	48 hours	Daphnia magna (Water flea)	-	-	7.800 mg/l (ethanol) >100 mg/l (ethylene glycol) 3.1 mg/l (phenol)			



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Algae/aquatic plants	IC ₅₀	7 days	green algae	-	-	5.000 mg/l (ethanol) 6.500-13.000 mg/l (ethylene glycol) 61.1 mg/l (phenol)	
Other organisms	-	-	-	-	-	-	
Chronic (long- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC ₅₀	96 hours	No information available	-	-	-	
Crustacea:	EC ₅₀	18 hours	No information available	_	-	-	
Algae/aquatic plants	IC ₅₀	72 hours	No information available	_	-	-	
Other organisms	-	_	-	-	-	-	
	degrada						
	Degra	adation half-live	s Method	E	Evaluation	Note	
Marine water	No info	rmation availab	le No informatio	n No in availa	formation ble	-	
Fresh water	No info	rmation availab	le No informatio available	n No in availa	formation ble	-	
Air	No info	rmation availab	le No informatio available	n No in availa	formation ble	-	
Soil	No info	rmation availab	le No informatio available	n No in availa	formation ble	-	
ı							
Biodeg	radation			ī			
% Degradation	n	Time (days)	Method	Εν	valuation	Note	
94% (ethanol)	No ava	o informat ailable	OECD 301E	No in availa	formation ble	readily biodegradable	
85% (phenol)	14	days	OECD 301C	No in availa	formation ble	readily biodegradable	
12.3 Bioacc	umulativ.	notontial					
		potential partition coeffici	ont (log Kow)				
Octano	n-water β	artition Coeffici	ent (log Kow)	1			

°C

рΗ

Value

Concentration

Method

Evaluation

Note



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_	-	-	-	-				-				ccumulation expected	is
	Bioconce	ntration 1	factor (BCF)										
V	alue	THE GET OF THE STATE OF THE STA	Species	Method Evaluation						Note			
No info availabl	information No inform		No information available		on	No information available		n	-				
	Chronic e	ecotovicit	W										
	Value	ecotoxicit	Dose		osure me	Spe	ecies	Meth	nod	Evalua	ation	Note	
Chronic toxicity on fish LC ₅₀		No information available			No ormation information			No information available		-			
	Chronic toxicity on crustacea (<i>Daphnia</i>)		information in		No inforr availa	mation ible	No information available		No information available		-		
12.4	Mobility i	in soil											
	-		ed distributi	on in e	nvironme	ntal c	ompart	ments:					
	No inforr	nation av	ailable										
	Surface to	ension:											
	Value		°C	C	oncentrati	ion	*	Metho	od			Note	
	No informati available		ormation ailable	No informatio available		ion No informatic available			n	-			
	Adsorption	on / deso	rption										
Transpo	ort	A/D coef Henry's co		lc	g Kow	Εν	/aporatio	on rate	N	1ethod		Note	
Soil-wa	ter No avai	in lable	formation	No ir availa	nformation able		o inform ailable			No information -			
Water-a	air No avai	in lable	formation	No ir availa	nformation able		o inform ailable	ation	No in	formation ble	on -		



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Soil-air	No information available	No information available	No information available	No information available	-					
12.5	Results of PBT and vPvB asses	sment								
12.3	Based on available data, the product does not contain any PBT or vPvB substances.									
-										
12.6.	Endocrine disrupting properties									
	Based on available data, does	not contain endo	crine disruptors.							
12.7.	Other adverse effects									
	No further relevant information	on available.								
SECTIO	N 13. Disposal considerations	s								
13.1	Waste treatment methods									
	:									
13.1.1.	Product/Packaging disposal	:								
	Submit for disposal to the le	egal person autho	rized by the Ministi	y of Environmental	and Nature					
	Protection.									
13.1.2.	Waste codes/waste designa	tions according to	Law:							
	15 01 10*: Packaging that co			s or is contaminate	d with hazardous					
	substances									
13.1.3.	Waste treatment – relevant	information:								
	No information available									
13.1.4.	Sewage disposal – relevant	information:								
13.1.7.	Waste must not be disposed		ne system							
	waste mast not be disposed		qc bystein.							
		a of file the sewa	<u> </u>							
13.1.5.	Other disposal recommenda		<i>.</i>							
13.1.5.	Other disposal recommendate Do not dispose of the product authorized by the ministry in the packaging to the collect	ations: uct's remains into n charge. Do not o	the sewage system	aging into the sewa						
13.1.5.	Do not dispose of the produ	ations: uct's remains into n charge. Do not c cors authorized by	the sewage system	aging into the sewa						
	Do not dispose of the produ authorized by the ministry in the packaging to the collect	ations: uct's remains into n charge. Do not o ors authorized by ions:	the sewage system dispose of the pack the ministry in cha	aging into the sewa						



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Transporting/shipment by road (ADR)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (ethanol, phenol)
Transport hazard class(es):	3 (6.1)
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (ethanol, phenol)
Transport hazard class(es):	3 (6.1)
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (ethanol, phenol)
Transport hazard class(es):	3 (6.1)
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (ethanol, phenol)
Transport hazard class(es):	3 (6.1)
Packing group:	Ш
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 (IC	AO-TI/IATA-DGR)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (ethanol, phenol)
Transport hazard class(es):	3 (6.1)
Packing group:	Ш
Environmentally hazardous:	-



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Special precautions for user:	-
Further information: -	

SECTION	ON 15. Regulatory informa	ation				
15.1	Safety, health and environ	nmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or rest	rictions 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 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-				
	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:	



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16.2	Abk	previations and acrony	yms:	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.		literature references rce of data:	and	-		
16.4.	4. Classification and procedure us 1272/2008 (CLP)			ed to derive the classification for mixture according to Regulation (EC)		
Classifi	Classification C		C	assification procedure		
-			-			
16.5.	Rele	evant H statements (n	umber	and full text)		
		H225	Highl	y flammable liquid and vapor.		
		H226	Flamı	mable liquid and vapor.		
		H301	Toxic	if swallowed.		
	H:	H302	Harm	ful if swallowed.		
		H311	Toxic	ic in contact with skin.		
		H314	Cause	es severe skin burns and eye damage.		
		H331	Toxic	if inhaled.		
		H341	Suspe	ected of causing genetic defects.		
		H373	May	cause damage to organs through prolonged or repeated exposure.		
16.6.	Trai	ning advice:	-			
16.7.	** "X" in the product code marks different volumes (different packagings of 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 materia safety data sheet.		uct) re not responsible for consequences in case of failure to comply with actions for use or improper use of the product described in this material			

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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

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Trading name:	TB DECOLORIZER							
Product code:	TBD-OT-X**	Revision date:	21 Dec 2022	Version:	5			

SECTI	ON 1: Identification of t	the substance	e/mixture	e and of the company/undertaking
1.1	Product identifier			
	Trading name:	TB DECOLO	ORIZER	
	Chemical name:	-		
	Catalogue number:	TBD-OT-X**		
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against
	Uses:		For use	in TB-Stain Cold and TB-Stain Hot kit.
	Uses advised against:		Only the	e 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 the safety data sheet			
	Supplier:		BioGnost Ltd.	
	Address:		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997	
	Telefax.:		+385 1 2404039	
	e-mail of competent p	erson:	msds@biognost.hr	
	National contact:		-	
1.4	Emergency telephone	number		
	National Protection an	d Rescue Dire	ectorate:	112
	Medical information:			+385 1 2348 342
	Other information:			-

SECTIO	ON 2. Hazards identification			
2.1	Classification of the substance or mixture			
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)			
	Hazard class and ca	tegory code:	Hazard statements*:	
	Flam. Liq. 2		H225	
2.1.2.	Additional information			
	-			
*For fu	ll text of Hazard- and EU Haza	ard-statements: see S	SECTION 16	
2.2	Label elements			
	Product identification:	TB DECOLORIZE	ER	
	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 assessment: Based on available data, the product does not contain any PBT or vPvB substances.			
	Endocrine disrupting property	y: Based on available data, does not contain endocrine disruptors.		

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- 0147	70 - 90 %	ethanol	Flam. Liq. 2; H225		
7647-01-0/ 231-595-7/ 017-002-00-2	-	2 -3 %	hydrochloric acid, 37%	Skin Corr. 1B; H314 STOT SE 3; H335		

SECTIO	SECTION 4. First aid measures				
4.1	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	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.			



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	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.		
	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 effects, both acute and delayed			
	Following inhalation:	Inhalation of larger quantities may affect the central nervous system.		
i				
	Following skin contact:	Prolonged or repeated dermal contact may cause the defatting and dryness of the skin.		
	Following skin contact: Following eye contact:			
		dryness of the skin.		
4.3	Following eye contact: Following ingestion:	dryness of the skin. May irritate the eyes.		

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	relf-contained breathing apparatus. Cool the fire affected containers with ssipate alcohol vapours.		



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5.4	Additional information
	-

	ON 6. Accidental release measu			
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.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Avoid contact with skin, eyes and clothing and inhaling gases, vapours and aerosols. Ensure adequate ventilation. Vapours may accumulate at floor level in low and confined spaces. Remove all heat, ignition and spark sources, turn off machines. Ignition spark arrestor must not be operated in the danger area. Use spark-proof tools. Be aware of the risk of slipping.			
6.2	Environmental precautions:			
	Dispose of the spillage and the resulting waste according to the applicable environmental reg not allow the product and the resulting waste to enter sewers/soil/surface or ground wate respective authorities in accordance with local law in the case of environmental pollution imr			
6.3	Methods and material for conta	ainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.		
6.3.2.	Cleaning up:	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).		
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information o	n safe handling.		
	See Section 8 for information on personal protection equipment.			
	See Section 6 for information 6	become become education		

	SECTIO	N 7. Handling and storage
	7.1	Precautions for safe handling
I	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 wa	sh hands after work and before eating.	
7.2	Conditions for safe storage, including any incom	patibilities		
	Technical measures and storage conditions:	Store in a well-ventilated place, protected from sun away from sources of heat and ignition, in its original unopened and hermetically sealed packaging, from oxidizing agents, food, feed and article consumption.		
	Packaging materials:	Manufactı	urer's original packaging.	
	Requirements for storage rooms and vessels:	Keep away tightly clo	y from food and drink. Keep the containers sed.	
	Advices for storage equipment:	be resista	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:	Do not place the unused material in the storage roc and do not use empty containers for storing oth chemicals. Do not store with incompatible materials (s Section 10).		
7.3	Specific end use(s)			
	Recommendations:	-		
	Industrial sector specific solutions:	_		

SECTION 8. Exposure controls/personal protection						
8.1 Control parameters						
Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values		
		ppm	mg/m³			
Ethanol	64-17-5	1000/-	1900/-	-		
Hydrogen chloride	7647-01-0	5/10	8/15	-		



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				:			1	
Substance r	name:	-						
EC No:		-	CAS No	-				
DNEL								
				In	dustrial			
Route of		Acu	te	Acute		Chronic	Chronic	
exposure:		effect	local	effect systemi	с	effect local	effect systemic	
Oral		-		-	-		-	
Inhalation		1900 mg, (ethanol)	/m³	-	-		380 mg/m³ (ethanol)	
Dermal		-		-	-		343 mg/kg (ethanol)	
Critical phys	sical para	meters: s	olubility,	flammability, co	rrosivity:	-		
				Co	nsumer	·		
Route of		Ac	ute	Acute		Chronic	Chronic	
exposure:		effec	t local	effect systemi	С	effect local	effect systemic	
Oral		-		-	-		87 mg/kg bw/day (ethanol)	
Inhalation		950 mg (ethan	-	-	-		114 mg/m³ (ethanol)	
Dermal		-		-	-		206 mg/kg (ethanol)	
PNEC								
Environmen	ital prote	ction targ	jet		PNEC			
Fresh water					0.96 mg/	'l (ethanol)		
Freshwater	sediment	ts			3.6 mg/k	g (ethanol)		
Marine wate	er				0.79 mg/l (ethanol)			
Marine sedi	ments				2.9 mg/kg (ethanol)			
Food chain					380-720 mg/kg (ethanol)			
Microorgan	isms in s	ewage tre	eatment		580 mg/l (ethanol)			
Soil (agricul	tural)				0.63 mg/kg (ethanol)			
Air					no information available			
8.2	Exposur	re control	S					
8.2.1.	Approp	riate engi	neering o	controls				
				d measures to dentified uses:	concentr concentr existing	ation limit it is the ation levels down to	aterial with no controlled e employer's duty to keep o a minimum achievable by ological means, where the o harm to workers.	



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	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to preve exposure:	nt	Organization of work in order to reduce other worker's influence during work process.		
av co		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 (EN ISO 16321-1:2022, EN 166).			
8.2.2.2.	Skin protection				
	Hand protection:	Use ap	propriate, chemical-resistant protective gloves (EN 374).		
	Other skin protection:	Use ap	propriate protective clothing.		
8.2.2.3.	Respiratory protection:	concer in the contac	e of normal usage and ventilation, it is not necessary. If stration of ethyl alcohol exceeds occupational exposure limits air, use a self-contained breathing apparatus. For short 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	rmal 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	ction 6		

SECT	SECTION 9. Physical and chemical properties					
9.1	.1 Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	colourless	No information available			



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	Odour/odour threshold:	ethanol like/no information available	No information available
	Melting point / freezing point:	No information available	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
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	17 °C	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	7.0 – 8.0 (20°C)	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
).2	Other information		
	-		

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.		

SECTION	SECTION 11. Toxicological information				
11.1	.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008				
	Acute toxicity:				



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Product code:	TBD-OT-X*	* Revi	sion date:	21 Dec	2022	V	/ersion: 5
Route of exposure:	Method	Species	Dose LD ₅₀ /		Exposure tir	me	Results
Oral:	-	rat (ethanol)	LD ₅₀		_		7.060 mg/kg
Dermal:	-	rabbit (ethanol)	LD ₅₀		_		>20.000 mg/l
Inhalation:	_	rat (ethanol)	LC ₅₀		4 h		>8.000 mg/l
Specific ta	rget organ to	xicity – single exposi	ure (STOT SE):				
3 7	S	pecific effects		Target org	an		Note
Oral:	No informa	tion available	No info	rmation ava	ilable	-	
Dermal:	No informa	tion available	No info	rmation ava	ilable	_	
Inhalation:	No informa	tion available	No info	rmation ava	ilable	_	
Aspiration	hazard:	No	information a	vailable.			
Irritation a	nd corrosion				:		
	Ехро	osure time	Species	Evaluation	Method		Note
Skin corrosion/irritation:	-	-		-	-	-	
Serious eye damage/irritation	-	-		-	-	-	
Sensitizatio	on						
Skin sensitization:		information availab	ole.				
Respiratory sensitiz		information availab					
Symptoms	related to the	e physical, chemical	and toxicolog	ical characte	eristics		
		on of great qua	•				•
Oral exposure:		ousness and alcohol may occur. Repeate			5 5	•	
Dermal exposure:		After prolonged or repeated exposure symptoms may include: defatting, decracking of skin.					ing, dryness an
Inhalation exposure	Inhalation membrar	n of great quantities nes.	may cause diz	ziness, euph	oria and mild	l irritat	ion of the mucou
_							

Repeated dose toxicity (subacute, subchronic, chronic)

May cause irritation and redness.

Eye exposure:



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	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

Specific target organ toxicity – repeated exposure (STOT RE):							
	Specific effects	Target organ	Note				
Subacute oral	No information available	No information available	-				
Subacute dermal	No information available	No information available	-				
Subacute inhalation	No information available	No information available	-				
Subchronic oral	No information available	No information available	-				
Subchronic dermal	No information available	No information available	-				
Subchronic inhalation	No information available	No information available	-				
Chronic oral	No information available	No information available	-				
Chronic dermal	No information available	No information available	-				



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Chronic inha	lation No	information	available	N	o information available	-
CMI	R effects (carcino	genicity; mu	utagenicity;	reproductive toxi	city)	
Card	cinogenicity:		В	ased on available	data, the classification of	criteria are not met.
Mut	tagenicity <i>in vitro</i>):	В	ased on available	data, the classification o	criteria are not met.
Gen	otoxicity:		В	ased on available	data, the classification of	criteria are not met.
Mut	tagenicity <i>in vivo</i>	•	В	ased on available	data, the classification of	criteria are not met.
Geri	m cell mutagenio	city:	В	ased on available	data, the classification of	criteria are not met.
Rep	roductive toxicity	y:	В	ased on available	data, the classification of	criteria are not met.
	nmary of eval perties:	uation of	the CMF	Based on ava met.	llable data, the classific	ation criteria are not
11.2 Info	rmation on othe	r hazards:				
11.2.1. End	ocrine disrupting	properties:				
	ed on available ocrine disruptors		not contair	1		
11.2.2. Oth	er informations:					
_						

SECTION 12. Ecological information									
12.1 Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC ₅₀	96 hours	golden orf	No information available	8.140 mg/l /48 h (ethanol)	-			
Crustacea:	EC ₅₀	48 hours	daphnia magna	No information available	7.800 mg/l (ethanol)	-			
Algae/aquatic plants	IC ₅₀	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			



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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	-	-	-	-	-	-

Abioti	c 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	-

Biodegradat	tion			
% Degradation	Time (days)	Method	Evaluation	Note
No information available				

12.3	Bioacc	ccumulative potential							
	Octano	Octanol-water partition coefficient (log Kow)							
Va	lue	Concentration	рН	°C	Method	Evaluation	Note		
Log Pov 0.32	W: ~	-	-	-	-	-	The product does not bioaccumulate		



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rioduc	it code.		7-01-X					-			
	Riocons	antratio	on factor (BCF)								
		=1111 ati0			k /	loth od		F = 1	luatio :-	**	Note
V	/alue		Species			lethod 			luation 		Note
BCF: 0.6	56		No information available		No info			No infor		-	
	Chronic	ecotoxi	city								
	Value		Dose	1	osure me	Specie	es	Metho	d	Evaluation	Note
Chronic toxicity on fish LC ₅₀		No infori availa	mation able	No informat available		No informat available	1	o formation ailable	-		
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No No information in		No informat available		No informat available		o formation vailable	-	
12.4		or predi	cted distributi available	on in e	environme	ental com	npartr	ments:			
	Surface	tension	•								
	Value	e	°C	C	oncentrat	ion		Method			Note
	No informat		No	No							
	available		information available		informat ilable		o info vailab	ormation le		-	
	available									-	
		2 (-	
Transpo	Adsorpti	ion / de	available	ava		a	vailab		Met	thod	Note
Transpo Soil-wa	Adsorpti	ion / de	esorption coefficient y's constant information	lo	og Kow oformatio	Evap	oratic	on rate ation	Met No infor available	thod	Note -
	Adsorpti	ion / de A/D Henry	esorption coefficient y's constant information ole information	lo No ir availa	og Kow oformationable	Evap n No ir	oratic oformable	on rate ation	No infor	thod mation	Note -



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12.5	Results of PBT and vPvB assessment
	Based on available data, the product does not contain any PBT or vPvB substances.
12.6.	Endocrine disrupting properties
	Based on available data, does not contain endocrine disruptors.
12.7.	Other adverse effects
	Do not let the product or its residues reach sewer system, waterways and soil.
SECTIO	N 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:
	Packaging that contains residual hazardous substances or is contaminated with hazardous substances
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. Unused product residues may be
	burnt.
13.1.6.	Relevant Community provisions:
	Disposal must be made according to official regulations.
SECTIO	N 14 TRANSPORT INFORMATION
	Transporting/shipment by road (ADR)
UN num	
	per shipping name: Ethanol solution
2 p.or	



Environmentally hazardous:

Special precautions for user:

Further information:

SAFETY DATA SHEET

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

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T	1()	2						
Transport hazard c	lass(es):	3						
Packing group:		II						
Environmentally ha		-						
Special precautions		-						
<u> </u>	ing/shipment by rail (R	T						
UN number:		1170						
UN proper shippin		Ethanol solution						
Transport hazard c	lass(es):	3						
Packing group:								
Environmentally ha		-						
Special precautions		-						
· · · · · · · · · · · · · · · · · · ·	terway transport (ADN)							
UN number:		1170						
UN proper shippin		Ethanol solution						
Transport hazard c	lass(es):	3						
Packing group:		II						
Environmentally ha		-						
Special precautions		-						
i	ing/shipment by sea (IN							
UN number:		1170						
UN proper shippin	g name:	Ethanol solution						
Transport hazard c	lass(es):	3						
Packing group:		II						
Environmentally ha	azardous:	-						
Special precautions	s for user:	-						
Transport in bulk of MARPOL 73/78	according to Annex II and the IBC code:	-						
Transport	ing/shipment by air (IC	AO-TI/IATA-DGR)						
UN number:		1170						
UN proper shippin	g name:	Ethanol solution						
Transport hazard c	lass(es):	3						
Packing group:		11						

-



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15.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions 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 (EC) 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).
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	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:	-



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16.2	Abbrevi	ations 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 liter	rature references and of data:	-		
16.4.		cation and procedure 008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classif	ication		Classification procedure		
_			-		
16.5.	Relevan	it H statements (numb	per and full text)		
	H:	225	Highly flammable liquid and vapour.		
		314	Causes severe skin burns and eye damage.		
		335	May cause respiratory irritation.		
16.6.	Training	g 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	
-	



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 ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results					
Oral:		-	rat (ethanol)	LD ₅₀	-	7.060 mg/kg					
Dermal:		-	rabbit (ethanol)	LD ₅₀	-	>20.000 mg/l					



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Product code:	V	1BL-OT-X**	Re	evision	date:	23 De	ec 2022	Versi	on: 9
Inhalation:		-	rat (ethanol)		LC ₅₀)	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						-	_	-	
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	–
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 ₅₀	96 hours	golden orf	No information available	8.140 mg/l /48 h (ethanol)	-
Crustacea:	EC ₅₀	48 hours	daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants	IC ₅₀	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 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	_



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Algae/aquatic	plants	IC ₅₀	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 ₅₀	No information available	No inforn availa		No informa availab			rmation lable	-	
	c toxicity cea (<i>Daph</i>		EC ₅₀	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	



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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:	-



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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
-