

TB-STAIN HISTO KIT

The kit contains:

TB Carbol Fuchsin reagent
TB Decolorizer
Methylene Blue Loeffler reagent



SAFETY DATA SHEET rding to Regulation (EC) No. 1907

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

		the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	TB CARBOL	FUCHSIN	REAGENT	
	Chemical name:	-			
	Catalogue number:	TBC-OT-X**			
1.2	Relevant identified us	es of the subst	tance or m	nixture and uses advised against	
	Uses:		For use i	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 advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnogainst: device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purpose		
1.3	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnos	t Ltd.	
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039 msds@biognost.hr		
	Telephone number:				
	Telefax.:				
	e-mail of competent p	person:			
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection and Rescue Directoral Medical information: Other information:		ectorate:	112	
				+385 1 2348 342	

SECTIO	SECTION 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 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 ful	ll text of Hazard- and EU Hazard-statements: see	e SECTION 16			



SAFETY DATA SHEET ing to Regulation (EC) No. 1907/2

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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	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 not contaminate the environment with extinguishing media.				

SECTIO	SECTION 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 case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2	Environmental precautions:				



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	Do not let product enter drai	ns. Risk of explosion.
6.3	Methods and material for cor	ntainment 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	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 generatio	n:	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 contro	ols/perso	nal pr	otection					
8.1 Control pa	arameters								
Substance		CA	S No	va			osure limit m values mg/m³		Biological limit values
Ethanol		64	-17-5	1	000/-		1900/-		-
Ethylene glycol		107	7-21-1		20/40		52/104		
Phenol		108	3-95-2		2/4		8/16	mol	mg/g of creatinine (0.14 /mol of creatinine), end of t, urinary excretion
Substance name: EC No:	-	CAS No):	-					
DNEL									
				Inc	dustri	al			
Route of exposure:	Acu effect			Acute ct systemic	C		Chronic Fect local		Chronic effect systemic
Oral	-		-		-				-
Inhalation	1900 mg (ethanol)		-			5 mg/kg thylene			380 mg/m³ (ethanol) 8 mg/m³ (phenol)
Dermal	-		-		-				343 mg/kg (ethanol) 106 mg/kg (ethylene glycol) 1.23 mg/kg (phenol)
Critical physical pa	rameters: s	olubility,	flamm	ability, cor	rosivit	ty:	-		
				Co	nsum	er			



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Route of exposure:		Acute effect local	Acute effect systemi	ic	Chronic effect local	Chronic effect systemic
Oral		-	-		-	87 mg/kg (ethanol) 0.5 mg/kg (phenol)
Inhalation		950 mg/ m³ (ethanol)	-		7 mg/kg (ethylene glycol)	114 mg/m³ (ethanol) 0.452 mg/m³ (phenol)
Dermal		-	-		-	206 mg/kg (ethanol) 0.5 mg/kg (phenol) 53 mg/kg (ethylene glycol)
PNEC				1		
Environment	al protect	ion target		PN	EC	
Fresh water				10 0.0	6 mg/l (ethanol) mg/l (ethylene glycol) 077 mg/l (phenol)	
Freshwater s	ediments			37	mg/kg (ethanol) mg/kg (ethylene glycol) 9125 mg/kg (phenol)	
Marine water	r			1 n	9 mg/l (ethanol) ng/l (ethylene glycol) 0077 mg/l (phenol)	
Marine sedin	nents			3.7	mg/kg (ethanol) mg/kg (ethylene glycol) 0915 mg/kg (phenol)	
Food chain				380)-720 mg/kg (ethanol)	
Microorganis	sms in sev	vage treatment		199) mg/l (ethanol) 9.5 mg/l (ethylene glycol) mg/l (phenol)	
Soil (agricult	ural)			1.5	3 mg/kg (ethanol) 3 mg/kg (ethylene glyco 36 mg/kg (phenol)	l)
Air				no	information available	
0.2	F					
	Exposure		controls			
8.2.1.	Appropri	ate engineering (LOTHIOIS	11-	the product is well	tilated rooms. Use name al
		e/mixture related xposure during i		pro	•	tilated rooms. Use personal ot eat, drink or smoke in the



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	Structural measures to prevent exposure:		In accordance with Section 7.
	Organisational measures to prevexposure:	ent	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent ex	xposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.
8.2.2.	Personal protection equipment		
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: Other skin protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374. Full contact: Glove material: butyl rubber Glove thickness: 0.70 mm Break through time: > 480 min Splash contact: Gloves material: nitrile rubber Glove thickness: 0.40 mm Break through time: > 120 min During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of	
8.2.2.3.	Respiratory protection:	Protect with a	PVC, himex) and footwear made from the same material. 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	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	
Lover 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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SECTION 11. Toxico	ological informatio	n					
11.1 Information	on hazard classes a	s defined in	Regul	ation (E0	C) No 1272/200	8	
Acute toxic	ity:						
Route of exposure:	Method Spe		Dose ₅₀ /LC ₅ ATE _m	or I	Exposure time		Results
Oral:	- r	at	LD ₅₀		-		mg/kg (ethanol) ng/kg (ethylene glycol)
Dermal:	- r	at	LD ₅₀		-		mg/kg (ethylene glycol g/kg (phenol)
Inhalation:	- r	at	LC ₅₀		4 h	124.7 n	ng/l (ethanol)
:							
Specific tar	get organ toxicity – s	single exposu	ure (S	TOT SE):			
	Specific 6	effects			Target organ		Note
Oral:	No information ava	information available No information available		-			
Dermal:	No information available -				-		
Inhalation:	No information ava	ilable		No info	rmation availab	le	-
Aspiration l	nazard:	No	inforn	nation av	vailable.		
Irritation an	d corrosion						
	Exposure time	Species	Eva	aluation	Method		Note
Skin corrosion/irritation:	-	in vitro study	-		OECD 431	cause	s burns (phenol)
Serious eye damage/irritation	-	rabbit	-		OECD 405	corro	sive (phenol)
Sensitizatio	n						
Skin sensitization:	No inform	ation availab	le.				
Respiratory sensitiza	tion: No inform	ation availab	le.				
Symptoms	related to the physic	al, chemical	and to	oxicolog	ical characterist	ics	
Oral exposure:	No information a	vailable.					
Dermal exposure:	No information a	available.					
Inhalation exposure:	No information a	available.					
Eye exposure:	No information a	vailable.					



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Repeate	ed dose toxi	city (sub	acute, subchro	nic, chronic)			
	Dos	e	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No infor available	mation	No information available	No information available	No information available	No informatio available	n -
Subacute dermal	No infor available	mation	No information available	No information available	No information available	No informatio available	n -
Subacute inhalation	No infor available	mation	No information available	No information available	No information available	No informatio available	n -
Subchronic oral	No infor available	mation	No information available	No information available	No information available	No informatio available	n -
Subchronic dermal	No infor available	mation	No information available	No information available	No information available	No informatio available	n -
Subchronic inhalation	No infor available	mation	No information available	No information available	No information available	No informatio available	n -
Chronic oral	No infor available	mation	No information available	No information available	No information available	No informatio available	n -
Chronic dermal	No infor available	mation	No information available	No information available	No information available	No informatio available	n -
Chronic inhalation	No infor available	mation	No information available	No information available	No information available	No informatio available	n -
Specific	target orga	ın toxicit	<u>'</u>	xposure (STOT	1	***************************************	N. .
Cb.a.atl	N 1	:	Specific effec	TS	Target o		Note
Subacute oral Subacute dermal			tion available		No information		_
Subacute inhalat			tion available		No information		
Subchronic oral			tion available		No information		_
Subchronic derm	······································		tion available		No information		_
Subchronic inhal			tion available			n available	_



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Chronic	oral No information available				No information available	-
Chronic	ronic dermal No information available No informat					-
Chronic	inhalation	No information available	nformation available No information available -			
	CMR effects	(carcinogenicity; mutagenicit	ty; re	eproductive t	toxicity)	
	Carcinogenicity:		Bas	sed on availa	able data, the classification o	riteria are not met.
	Mutagenicity in vitro:		Bas	sed on availa	able data, the classification o	riteria are not met.
	Genotoxicity	exicity: Based on available data, the classification criteria are not				riteria are not met.
	Mutagenicity	ı in vivo:	Based on available data, the classification criteria are not met.			
	Germ cell mu	utagenicity:	Based on available data, the classification criteria are not met.			
	Reproductive	e toxicity:	Bas	sed on availa	able data, the classification o	riteria are not met.
	Summary of properties:	of evaluation of the C	MR	Based on met.	available data, the classific	ation criteria are not
11.2	Information of	on other hazards:				
11.2.1.	Endocrine di	srupting properties:				
	No known e that affect hu	ndocrine disrupting proper uman health.	ties			
11.2.2.	Other inform	ations:				
	-					

SECTION 12. Ed	SECTION 12. Ecological 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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Product code	e. IDC	-O1-X	Date of 6	compliation.	21 Dec 20	ZZ Version, 5
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	48 hours	No information available	-	-	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	-	_	-
Other organisms	-	-	-	-	_	-
				:		
12.2 Persis	stence and	degradability				
Abiot	ic degradat	tion	1	1		
	Degra	idation half-li	ves Metho	od	Evaluation	Note
			No informa	ntion No in	formation	

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	-

% Degradation	Time (days)	Method	Evaluation	Note
94% (ethanol)	No information available	OECD 301E	No information available	readily biodegradable
85% (phenol)	14 days	OECD 301C	No information available	readily biodegradable

12.3	Bioaccumulative potential						
	Octanol-water partition coefficient (log Kow)						
Va	alue Concentration pH °C Method Evaluation Note						



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Produ	ıct code:	ТВ	TBC-OT-X**			Date of compilation: 21 Dec 2022			١	/ersion:	5		
_		_	-		- -			-				accumulation expected	n is
	Biocono	entrati	on factor (BCF)										
,	Value		Species		N	lethoo	<u> </u>	Ev	valuatio	n		Note	
No info	ormation ole	No ava	inform	ation	No info		on	No info	ormatic	on	_		
	Chronic	ecoto	kicity										
	Value		Dose		osure ime	Spe	ecies	Meth	nod	Evalua	ation	Note)
Chroni	ic toxicity	on fish	LC ₅₀	information ir		No informavaila	mation able	information		No information - available		-	
	ic toxicity (cea (<i>Daphi</i>		EC ₅₀	No infor availa	mation able	No infori availa	mation able	No inform availab		No informa availabl		-	
12.4	Mobility	/ in soil											
	Known	or prec	licted distributi	on in e	environme	ental o	compart	ments:					
	No info	rmatio	n available										
	Surface	tensio	n:										
	Valu	ıe	°C	C	oncentrat	tion	1	Metho	od			Note	
	No informa availabl		No information available	availahla availahla		-	-						
	Adsorpt	tion / d	esorption										
Transp		A/D c	coefficient 's constant	lc	og Kow	Ev	vaporati	on rate	Ŋ	Method		Note	
Soil-wa	ater No		information	No ir availa	nformatio able		o inform ailable	nation	No in availa	formatic ble	on -	-	
Water-	-air No	ailable	information	No ir availa	nformatio able		o inform vailable	nation	No in availa	formatic ble	on -	-	



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l Soil-air			No information available	No information available	-		
12.5	Results of PBT and vPvB assess	ment					
	Based on available data, the pro-	oduct does not c	ontain any PBT or	vPvB substances.			
12.6.	Endocrine disrupting properties	S					
	Based on available data, does r	not contain endo	crine disruptors.				
12.7.	Other adverse effects						
12.7.	No further relevant information	n available					
	No further relevant information	i avaliable.					
SECTIO	ON 13. Disposal considerations						
13.1	Waste treatment methods						
13.1.1.	Product/Packaging disposal:						
	Submit for disposal to the leg	gal person autho	rized by the Ministi	ry of Environmental	and Nature		
	Protection.						
13.1.2.	Waste codes/waste designati	ons according to	Law:				
	15 01 10*: Packaging that cor			s or is contaminated	d with hazardous		
	substances						
12.1.2	W	- (- ···· - + : - ···					
13.1.3.	Waste treatment – relevant in No information available	itormation:					
	INO IIIIOIIIIatioii available						
13.1.4.	Sewage disposal – relevant ir	nformation:					
	Waste must not be disposed	of into the sewa	ge system.				
13.1.5.	Other disposal recommendat	ions:					
	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.						
13.1.6.	Relevant Community provisions:						
	Disposal must be made according to official regulations.						
SECTIO	ON 14 TRANSPORT INFORMAT	ION					



SAFETY DATA SHEET

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

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:	III
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:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	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:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (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:	III
Environmentally hazardous:	-



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

Special precautions for us	er:	-
Further information:	-	

SECTIO	ON 15. Regulatory informa	ation
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 (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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Trading name:		TB CARBOL FUCHSIN	CARBOL FUCHSIN REAGENT		
Product code:	TBC-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

16.2	Abbreviations and acronyms:		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.		ssification and proced 2/2008 (CLP)	lure use	ed to derive the classification for mixture according to Regulation (EC)		
Classifi	Classification C		Cl	assification procedure		
-			-			
16.5.	Rele	evant H statements (r	umber	and full text)		
		H225	Highl	y flammable liquid and vapor.		
		H226	Flamr	Flammable liquid and vapor.		
		H301	Toxic	Toxic if swallowed.		
	H:	H302	Harm	ful if swallowed.		
		H311	Toxic	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.	prod 16.7. Further information: We a		produ We au instru	re not responsible for consequences in case of failure to comply with ctions for use or improper use of the product described in this material		
			safety	data sheet.		

ANNEX: Exposure scenario resulting to c	hemical safety assessment
	·

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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	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier			1 2	
	Trading name:	TB DECOLO	RIZER		
	Chemical name:	-			
	Catalogue number:	TBD-OT-X*	k		
1.2	Relevant identified use	s of the subst	tance or n	nixture and uses advised against	
	Uses:	in TB-Stain Cold and TB-Stain Hot kit.			
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advis	The product is intended for use only as an <i>in vitro</i> diagnostic r device, registered at the Agency for Medicinal Products and N 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. Medjugorska 59, Zagreb		
	Address:				
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039 msds@biognost.hr		
	e-mail of competent p	erson:			
	National contact:		_		
1.4	Emergency telephone	number			
	National Protection an	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	TION 2. Hazards identification				
2.1	Classification of the substar	ice or mixture			
2.1.1	Classification according to F	Regulation (EC) No 12	272/2008 (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	ECTION 16		
2.2	Label elements				
	Product identification:	Product identification: TB DECOLORIZER			
	Identification number:	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 know	n 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:	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			

SECTI	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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		ne body, obtain medical treatment (gastric lavage, activated carbon).
4.3	Indication of any immediate media	cal attention and special treatment needed
	Following ingestion:	Ingestion of larger quantities may affect the central nervous system.
	Following eye contact:	May irritate the eyes.
	Following skin contact:	Prolonged or repeated dermal contact may cause the defatting and dryness of the skin.
	Following inhalation:	Inhalation of larger quantities may affect the central nervous system.
4.2	Most important symptoms and eff	fects, both acute and delayed
	Self-protection of the first aider:	-
	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.
	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 skin contact:	Remove the contaminated clothes. Wash the skin surface under plenty of running water. Seek medical assistance if the symptoms of irritation remain.

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.



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5.4	Additional information
	-

6.1	Personal precautions, protective	ve 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 accurand spark sources, turn off ma	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 regula not allow the product and the resulting waste to enter sewers/soil/surface or ground water. No respective authorities in accordance with local law in the case of environmental pollution immediately.				
6.3	Methods and material for cont	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	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.				
	See Section 8 for information of See Section 13 for disposal inf				

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 wash hands after work and before eating.			
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Store in a well-ventilated place, protected from sunlight, away from sources of heat and ignition, in its original, unopened and hermetically sealed packaging, away from oxidizing agents, food, feed and articles of consumption.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.			
	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. Exposure controls/personal protection						
8.1 Control parameters						
Substance	CAS No		exposure limit t 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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Trading na	ame:					TB D	ECOLORIZER			
Product co	ode:	TBD-OT	-X**		Revision	on date	21 Dec 20	22	Version:	5
	i i				i .		i			
Substance i	name:	_								
EC No:		_	CAS No):	-					
DNEL										
					In	dustrial				
Route of		Acı	ıte		Acute		Chronic		Chronic	
exposure:		effect	local	effec	t systemi	с	effect local		effect systemic	
Oral		-		-		-		-		
Inhalation 1900 mg/m³ (ethanol)			-		380 mg	g/m³ (ethanol)				
Dermal -			-		-		343 mg	g/kg (ethanol)		
Critical phy	sical para	ameters: s	solubility,	flamma	ability, co	rrosivity:	-			
					Co	nsumer				
Route of		Ad	cute		Acute		Chronic		Chronic	
exposure:		effec	t local	effec	t systemi	С	effect local	1	effect systemic	
Oral		-		-		-		87 mg/	kg bw/day (eth	anol)
Inhalation		950 m (ethan	_	-		-		114 mg	g/m³ (ethanol)	
Dermal		-		-		-		206 mg	g/kg (ethanol)	
PNEC										
Environmer	ntal prote	ection tar	get			PNEC				
Fresh water	•					0.96 mg/l (ethanol)				
Freshwater	sedimen	ts		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	nisms in s	sewage tr	eatment			580 mg	را (ethanol)			
Soil (agricu	ltural)					0.63 m	g/kg (ethanol)			
Air						no info	rmation available			
8.2	Exposu	re contro	ls							
8.2.1.	Approp	riate eng	ineering	controls	S					
		nce/mixtu t exposur				concen concen existing	e of a hazardous tration limit it is tration levels dow scientific and te ous substance pose	the employ n to a mini chnological	yer's duty to k mum achievable means, where	eep by



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	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to prevent exposure: Technical measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.		
			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 appropriate, 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 attration 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	Information on basic physical	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
Lover 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
Other information		

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



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Product code: TBD-OT-X**		*	Revision date:		21 D	21 Dec 2022		Version:	Version: 5	
Route of exposure:	Method	Species		Dose LD ₅₀ /I		Exposur	e time	Resul	ts	
Oral:	-	rat (ethano	ol)	LD ₅₀		-		7.060 m	g/kg	
Dermal:	-	rabbit (etha	nol)	LD ₅₀		-		>20.000	mg/l	
Inhalation:	-	rat (ethano	ol)	LC ₅₀		4 ł	1	>8.000 ו	mg/l	
Specific tar	get organ to	xicity – single e	exposu	ıre (STOT SE):						
į '	<u> </u>	pecific effects			Target o	rgan		Note		
Oral:	No informa	tion available		No info	rmation a	vailable	-			
Dermal:	No informa	tion available		No info	rmation a	vailable	-			
Inhalation:	No informa	tion available		No info	rmation a	vailable	-			
				<u> </u>						
Aspiration	hazard:		No i	nformation av	vailable.					
Irritation ar	nd corrosion									
	Ехро	osure time		Species	Evaluation	on Meth	od	Note		
Skin corrosion/irritation:	-		-		-	-	-	-		
Serious eye damage/irritation	-		-		-	—	-	-		
Sensitizatio	on									
Skin sensitization:	No	information a	vailab	le.						
Respiratory sensitiza	ation: No	information a	vailab	le.						
- · · · · · · · · · · · · · · · · · · ·	i									
Symptoms	related to th	e physical, che	mical a	and toxicolog	ical chara	cteristics				
Oral exposure:	unconsci	on of great ousness and al may occur. Re	cohol _l	poisoning. In a	case of sw	allowing gr	eat qua			
Dermal exposure:	After pro	olonged or rep of skin.	peated	d exposure s	ymptoms	may includ	de: def	atting, drynes	s and	
Inhalation exposure	: Inhalatio membrar	n of great quan nes.	itities r	may cause diz	ziness, eu	ohoria and r	nild irri	tation of the m	ucous	
Eye exposure:	May caus	se irritation and	d redn	ess.						

Repeated dose toxicity (subacute, subchronic, chronic)



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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	inhalation No	information	n available		No information available -			
	CMR effects (carcino	ogenicity; m	utagenicity	y; re _l	productive toxicity)			
	Carcinogenicity:			Bas	ed on available data, the classification criteria are not met.			
	Mutagenicity in vitr	o:		Bas	ed on available data, the classification criteria are not met.			
	Genotoxicity:			Bas	ed on available data, the classification criteria are not met.			
	Mutagenicity in vivo:			Bas	ed on available data, the classification criteria are not met.			
	Germ cell mutagenicity: Reproductive toxicity:			Based on available data, the classification criteria are not met.				
				Based on available data, the classification criteria are not met.				
	Summary of eva properties:	luation of	the CM	ИR	Based on available data, the classification criteria are not met.			
11.2	Information on other	er hazards:						
11.2.1.	Endocrine disruptin	g properties	5:					
	Based on available endocrine disruptor		not conta	ain				
11.2.2.	Other 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	-

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



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	Value		Species		N	1ethod		E۱	/aluatio	n		Note
BCF: 0).66	No ava		ation	No info availabl		n	No info		on	-	
	Chronic	ecoto	xicity									
	Value		Dose		osure ime	Spe	ecies	Meth	nod	Eva	luation	Note
Chron	ic toxicity o	on fish	LC ₅₀	No infor availa	mation able	No inforn availa	nation ble	No inform availab		No infor availa	mation able	-
	ic toxicity o		EC ₅₀	No infor availa	mation able	No inforn availa	nation ble	No inform availab		No infor availa	mation able	-
12.4	Mobility											
	Known or predicted distribution in environmental compartments:											
				011 111 0	environini	ental c	ompart	ments:				
		rmatio	n available		environini	ental c	ompart	ments:				
	Surface	rmatio tensio	n available n:				ompart					N
	Surface Valu	rmatio tensio	n available n: °C		oncentra		ompart	Metho	od			Note
	Surface	rmatio tensio le tion	n available n:	C No		tion		Metho			-	Note
	Surface Valu No informa	rmatio tensio le tion	n available n: °C No information	C No	oncentrati	tion	No inf	Metho				Note
	Surface Valu No informa available	rmatio tensio le tion e	n available n: °C No information	C No	oncentrati	tion	No inf	Metho				Note
Transp	Surface Valu No informa available Adsorpt	tensio tensio tensio tensio tensio tion e	n available n: °C No information available	No ava	oncentrati	tion	No inf	Metho formation ple	n	Metho		Note
•	Surface Valu No informa available Adsorpt	tensio tensio tensio tensio tensio tion e	n available n: °C No information available desorption Coefficient ry's constant information	No ava	oncentration information information on the contract of the co	tion iion Ev	No inf availab	Metho formation ole on rate	ı	Metho	d	
Transp Soil-w Water	Surface Valu No informa available Adsorpt	tensio tensio tensio tensio A/E Hen	n available n:	No availa	oncentration information infor	Evon No	No inf availab vaporati	Methodological Method	No ir availa	Metho forma able	d	Note



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12.5	Results of PBT and vPvB assessmer	nt -			
12.3		ct does not contain any PBT or vPvB substances.			
	20000 011 010 010 0000, 010 010 000				
12.6	For description and a second section				
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 residu	es reach sewer system, waterways and soil.			
SECTIO	N 13. Disposal considerations				
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposal:				
		person authorized by the Ministry of Environmental and Nature			
	Protection.				
13.1.2.	Waste codes/waste designations				
	Packaging that contains residual	hazardous substances or is contaminated with hazardous substances			
13.1.3.	Waste treatment – relevant infor	mation:			
	No information available				
13.1.4.	Sewage disposal – relevant infor	mation:			
	Waste must not be disposed of i	nto the sewage system.			
13.1.5.	Other disposal recommendations	S:			
	Do not dispose of the product's	remains into the sewage system. Submit the remains to the collectors			
		arge. Do not dispose of the packaging into the sewage system. Submit authorized by the ministry in charge. Unused product residues may be			
	burnt.				
13.1.6.	Relevant Community provisions:				
	Disposal must be made accordin	g to official regulations.			
	i .	-			
SECTIO	N 14 TRANSPORT INFORMATION				
	Transporting/shipment by road (Al				
UN num		1170			
		Ethanol solution			
CIA PIO	рег эттрриту папте.	Editation Solution			



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Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
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:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	



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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 (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).			
		REACH Restrictions on the manufacturing, placing on the market and use of certai 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	Abbreviations and acronyms:		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.		erature references and of data:	a -		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classification			Classification procedure		
-			-		
16.5.	. Relevant H statements (number and full text)		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.	Trainin	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	
-	



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1.1	Product identifier					
	Trading name:	METHYLEN	E BLUE LC	EFFLER'S REAGENT		
	Chemical name:	-				
	Catalogue number:	MBL-OT-X*	*			
1.2	Relevant identified uses of the substance or mixture and uses advised against			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 aption.		
	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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039			
	e-mail of competent p	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection a	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Reg	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and categ	Hazard class and category code: Hazard statements*:			
	Flam. Liq. 3		H226		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-	-statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	Product identification: METHYLENE BLUE LOEFFLER'S REAGENT			
	Identification number:	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 know	n 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:	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	10 – 20 %	ethanol	Flam. Liq. 2; H225		

SECT	SECTION 4. First aid measures				
4.1	Description of first aid measu	ires			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	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 eye contact: Following ingestion:	May irritate the eyes. Ingestion of larger quantities may affect the central nervous system.
4.3	Following ingestion:	

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 substance 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 self-contained breathing apparatus. Cool the fire affected containers wit water spray. Use water spray to dissipate alcohol vapours.	
5.4	Additional information	
	-	



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SECTIO	ON 6. Accidental release meas	ures		
6.1	Personal precautions, protecti	ve equipment and emergency procedures		
6.1.1.	For non-emergency personne			
	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 accu	and clothing and inhaling gases, vapours and aerosols. Ensure adequate mulate at floor level in low and confined spaces. Remove all heat, ignition achines. Ignition spark arrestor must not be operated in the danger area. Use the risk of slipping.		
6.2	Environmental precautions:			
	Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.			
6.3	Methods and material for con	tainment 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 on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.			

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. Thoroughly wash hands after work and before eating.				
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Store in a well-ventilated place, protected from sunlight away from sources of heat and ignition, in its origina unopened and hermetically sealed packaging, awa from oxidizing agents, food, feed and articles of consumption.			
	Packaging materials:	Manufacturer'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 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. Exposure controls/personal protection						
8.1 Control parameters						
Substance	CAS No	· ·	exposure limit t term values	Biological limit values		
		ppm	mg/m³	-		
Ethanol	64-17-5	1000/-	1900/-	-		
			·			
Substance name: -						



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									Page 6 01 17	
Trading na	ame:			М	ETHYLE	NE BLUE	LOEFFLER'S REA	GENT		
Product co	ode:	MBL-OT	-X**		Revisio	n date:	23 Dec 2022		Version:	9
	i				I		i		I.	
EC No:		<u>-</u>	CAS No):	-					
DNEL										
					Ind	lustrial				
Route of		Acu	te	А	cute		Chronic		Chronic	
exposure:		effect	local	effect	systemic		effect local	€	effect systemic	
Oral			-		-					
Inhalation		1900 mg (ethanol)		-		-		380 mg	/m³ (ethanol)	
Dermal		-		-		-		343 mg	/kg (ethanol)	
Critical physical parameters: solubility, flammability				bility, cor	rosivity:	-				
					Cor	nsumer				
Route of		Ad	cute	Δ	Acute		Chronic		Chronic	
exposure:		effec	t local	effect	systemic		effect local	€	effect systemic	
Oral		-	. 2	-		-		87 mg/	kg bw/day (eth	anol)
Inhalation		950 m (ethan	_	-		-		114 mg	/m³ (ethanol)	
Dermal		-		-		-		206 mg	/kg (ethanol)	
PNEC										
Environmer	ntal prote	ection tar	get			PNEC				
Fresh water	•					0.96 mg/	(ethanol)			
Freshwater	sedimen	nts				3.6 mg/kg	g (ethanol)			
Marine wat	er					0.79 mg/l (ethanol)				
Marine sedi	iments					2.9 mg/kg (ethanol)				
Food chain						380-720 mg/kg (ethanol)				
Microorgan	isms in s	sewage tre	eatment			580 mg/l	(ethanol)			
Soil (agricul	ltural)					0.63 mg/kg (ethanol)				
Air						no inform	nation available			
8.2	Exposu	re contro	S							
8.2.1.	Approp	oriate eng	ineering	controls						
		nce/mixtu t exposure			res to	concentra concentra existing	of a hazardous mation limit it is the ation levels down to scientific and techn is substance poses n	e employ o a minir ological	er's duty to k num achievable means, where	keep e by
	Structu exposu	ıral measu ıre:	res to pr	event		In accord	ance with 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 ex	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 appropriate, 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 attration 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 Section 6			

SECT	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
	Lover 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

SECTI	ON 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 11. Toxicological information							
11.1 Informat	11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008						
Acute to	Acute toxicity:						
Route of exposure:	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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Inhalation:		-	rat (ethanol)		LC ₅₀		4 h	>	>8.000 n	ng/l
Specific	c targe	t organ toxicit	y – single expo	osure (S	TOT SE):					
į •			ific effects	`		Target orga	n	Note		
Oral:	N	lo information			No info	rmation avai				
Dermal:	٨	lo information	available		No info	rmation avai	lable -			
Inhalation:	٨	lo information	available		No info	rmation avai	lable -			
Aspirat	ion ha	zard:	٨	lo infori	mation a	vailable.				
			•							
Irritatio	n and	corrosion					-			
		Exposur	e time	Spec	ies	Evaluation	Method		Note	
Skin corrosion/irritat	ion:	-	-			_	-	-		
Serious eye damage/irritatio	on	-	-			-	-	-		
Skin sensitizatio		NI= :f	ormation avai	1-1-1-						
Respiratory sens			ormation avai							
Respiratory sens	SILIZALIC	JII. INO IIII	Offilation avail	iable.						
Sympto	oms re	lated to the pl	nysical, chemic	al and t	oxicolog	ical character	istics			
Oral exposure:		Absorption unconscious	of great c ness and alcoh y occur. Repea	quantitie nol poise	es may oning. In	cause diz	ziness, drun wing great qu		nausea	
Dermal exposur	e:	After prolon cracking of s	ged or repea kin.	ited exp	oosure s	ymptoms ma	ay include: d	efatting,	dryness	s and
Inhalation expo	sure:	Inhalation of membranes.	great quantiti	es may o	cause diz	ziness, eupho	oria and mild i	rritation o	of the mu	ucous
Eye exposure:		May cause ir	ritation and re	dness.						
Repeat	ed dos	se toxicity (sub	acute, subchro	onic, chi	ronic)	:	:			
		Dose	Exposure time	Speci	es	Method	Evaluation	on	Note	
Subacute oral		information lable	No information available	No inforr availa	nation ble	No information available	No infor available		-	



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Subacute dermal	No i availa	information able	No information available	No information available	No information available	No inform available	nation	-
Subacute inhalation	No i availa	information able	No information available	No information available	No information available	No inform available	nation	-
Subchronic oral	No information available		No information available	No information available	No information available	No inform available	nation	_
Subchronic dermal	onic No information available		No information available	No information available	No information available	No inform available	nation	-
Subchronic inhalation	No information available		No information available	No information available	No information available	No inform available	nation	-
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 i availa	information able	No information available	No information available	No information available	No inform available	nation	-
Specific	target	organ tovicit	v – repeated e	xposure (STOT	DE).			
Specific	target	organ toxicit		•		rgan		Note
Specific effec				raigeto	Target organ o information available -			
Subacute oral		No informa	tion available				-	Note
	 		<u> </u>			n available	-	Note
Subacute derma		No informa	tion available		No information	n available n available		Note
Subacute oral Subacute derma Subacute inhalat Subchronic oral		No informa	tion available		No information	n available n available n available	-	Note
Subacute derma Subacute inhalat Subchronic oral	tion	No informa No informa No informa	tion available tion available tion available		No information No information	n available n available n available n available	-	Note
Subacute derma Subacute inhalat Subchronic oral Subchronic dern	tion	No informa No informa No informa No informa	tion available tion available tion available tion available		No information No information No information No information	n available n available n available n available n available	-	Note
Subacute derma Subacute inhalat Subchronic oral Subchronic dern Subchronic inha Chronic oral	tion	No informa No informa No informa No informa No informa No informa	tion available tion available tion available tion available tion available tion available		No information	n available n available n available n available n available n available	-	Note
Subacute derma Subacute inhalat Subchronic oral Subchronic dern Subchronic inha	nal lation	No informa	tion available tion available tion available tion available tion available		No information No information No information No information No information No information	n available n available n available n available n available n available n available	-	Note



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	Mutagenicity in vitro:	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
	Genotoxicity:					
	Mutagenicity in vivo:	Bas	sed on available data, the classification criteria are not met.			
	Germ cell mutagenicity:		sed on available data, the classification criteria are not met.			
	Reproductive toxicity:	Based on available data, the classification criteria are not met.				
	Summary of evaluation of the CN properties:	ЛR	Based on available data, the classification criteria are not 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. Ecologi	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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e and degradation Degradation To information To information To information To information To information	available available	avai No i avai No i	Method information lable information lable	Evaluation No information available No information available	n		Note
egradation Degradation has information o information o information	available available	avai No i avai No i	information lable information lable	No informatio available No informatio	n	-	Note
egradation Degradation has information o information o information	available available	avai No i avai No i	information lable information lable	No informatio available No informatio	n	-	Note
Degradation holds information of inf	available available	avai No i avai No i	information lable information lable	No informatio available No informatio	n	-	Note
o information o information	available available	avai No i avai No i	information lable information lable	No informatio available No informatio	n	-	Vote
o information	available	avai No i avai No i	lable information lable	available No informatio			
o information		avai No i	lable		n	_	
	available			avanabic			
o information		avdi	information lable	No informatio available	n	_	
	No information available		information lable	No information available		-	
Biodegradation % Degradation Time (days) No information No information			Method Evaluation No information No information			Note No information	
available	normation			available		available	
ulative notenti	اد						
		loa Ka	ow)				
Concentration	рН	°C	Method	Evalu	ıation		Note
	-	•	-	-			duct does accumulate
ntration factor	(BCF)						
Speci	es		Method	Evaluat	ion		Note
•				No information available		-	
	Time (No ir available ulative potential vater partition of the concentration factor (Specience of the concentration of the concentration factor (Specience of the concentration of the concentration factor (Specience of the concentration of the concentration factor (Specience of the concentration of the concentration factor (Specience of the concentration of the concentration factor (Specience of the concentration of the concentration factor (Specience of the concentration	Time (days) No information available ulative potential vater partition coefficient (later partition phenomenation phenomenation factor (BCF) Species No information	Time (days) No information No available ulative potential vater partition coefficient (log Karation phage) otration factor (BCF) Species No information No information No information	Time (days) No information available Method No information available	Time (days) No information available Water partition coefficient (log Kow) Concentration pH °C Method Evaluation	Time (days) No information available Mode information information No information information No information information No information	Time (days) No information available No information available Water partition coefficient (log Kow) Concentration pH Concentration pH



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	Chroni	c ecoto	xicity							
	Value		Dose	Exposure time	Spe	ecies	Metho	od E	valuation	Note
Chroni	Chronic toxicity on fish LC ₅₀		No information available	No inforr availa	mation	No informa available		ormation ailable	-	
	c toxicity cea (<i>Daph</i>		EC ₅₀	No information available	No inforr availa	mation	No informa available	1	ormation ailable	-
12.4	Mobilit	y in soi	il							
12.4			dicted distributi	on in onvironm	ontal c	ompartm	onts:			
		······································	n available	OII III EIIVII OIIIII	endi C	.omparut	iciils.			
	Surface									
			°C	Concentra	tion		Method	١		Note
	No No information infor		_	No informat	No information No information available available		<u> </u>	_	NOTE	
	Adsorp	+ion / a	Vaccoration							
	Adsorp		desorption D coefficient							
Transp	ort	1	ry's constant	log Kow	Ev	Evaporation rate		Method		Note
Soil-wa	ater	No availa	information able	No informatio available		No information available		No information available		-
Water-	air	No availa	information able	No information		No information available		No information available		-
Soil-air	•	No availa	information able	No information available		o informa ailable	ition	No inforr available	nation	-
12.5	Results	of PBT	and vPvB asses	ssment						
			lable data, the p		t cont	ain any P	BT or vP	vB substa	nces.	
12.6.	Endocr	ine disi	rupting properti	es						
	Pacod .	an avai	lable data dees	not contain en	docrin	a disrunt	orc			



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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 legal person authorized by the Ministry of Environmental and Nature Protection.					
13.1.2.	Waste codes/waste design	nations according to Law:				
	Packaging that contains 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 dispo	sed of into the sewage system.				
	1					
13.1.5.	Other disposal recomme					
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Unused product residues may be				
13.1.6.	Relevant Community pro	visions:				
	Disposal must be made a	ccording to official regulations.				
SECTIO	N 14 TRANSPORT INFORM	IATION				
	Transporting/shipment by	road (ADR)				
UN num	nber:	1170				
UN prop	per shipping name:	Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing	group:	III				
Environi	mentally hazardous:	-				
Special	precautions for user:	-				
	Transporting/shipment by	rail (RID)				
UN num	nber:	1170				



SAFETY DATA SHEET

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UN proper shipping name:	Ethanol solution		
Transport hazard class(es):	3		
Packing group:	III		
Environmentally hazardous:	-		
Special precautions for user:	-		
Inland waterway transport (ADN)		
UN number:	1170		
UN proper shipping name:	Ethanol solution		
Transport hazard class(es):	3		
Packing group:	III		
Environmentally hazardous:	-		
Special precautions for user:	-		
Transporting/shipment by sea (I	MDG)		
UN number:	1170		
UN proper shipping name:	Ethanol solution		
Transport hazard class(es):	3		
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	CAO-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 user:	_		
Further information: volume is not IATA: Special	Provision 144 – An aqueous solution containing 24% or less alcohol by subject to classification. Provision 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 restr	Authorization and/or restrictions 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	nt		
	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 (numb	er 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.		

1	
	ANNEX: Exposure scenario resulting to chemical safety assessment
	-
	-