

TB-STAIN QUICK KIT

The kit contains:

TB Carbol Fuchsin reagent

TB Decolorizer

TB Armand reagent



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

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

Page 1 of 18

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

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

Page 2 of 18

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

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	



Page 3 of 18

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

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				



Page 4 of 18

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

	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:				



Page 5 of 18

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

	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.



Page 6 of 18

Trading name:		TB CARBOL FUCHSI	N REAGENT	<u> </u>	
Product code:	TBC-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

	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			



Page 7 of 18

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

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



Page 8 of 18

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

	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



Page 9 of 18

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

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.				



Page 10 of 18

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

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.					



Page 11 of 18

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

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	_



Page 12 of 18

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

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)			



Page 13 of 18

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

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						



Page 14 of 18

Tradir	ng name:				ТВ (CARB	OL FU	CHSIN	REAGE	NT			
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 -	-	



Page 15 of 18

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

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

Page 16 of 18

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:	-



Page 17 of 18

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:	-



Page 18 of 18

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
	·

-



Page 1 of 17

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:	-			



Page 2 of 17

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

	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.			



Page 3 of 17

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

		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.



Page 4 of 17

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

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	



Page 5 of 17

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

	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	-		
		•				



Page 6 of 17

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



Page 7 of 17

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

	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		



Page 8 of 17

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

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:				



Page 9 of 17

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

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)



Page 10 of 17

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

	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	-				



Page 11 of 17

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

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		



Page 12 of 17

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

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				



Page 13 of 17

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

	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



Page 14 of 17

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

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			



SAFETY DATA SHEET

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

Page 15 of 17

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

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: -	



Page 16 of 17

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

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:	-



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

amended by Regulation (EU) No. 2020/878

Page 17 of 17

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

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	
-	



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

Page 1 of 17

Trading name:	TB ARMAND REAGENT				
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4

SECTI	ON 1. IDENTIFICATION	OF THE SUI	BSTANCE / N	IIXTURE AND OF THE COMPANY / UNDERTAKING		
1.1.	Product identifier	<u> </u>		The second secon		
	Trading name:	TB ARMAI	ND REAGENT			
	Chemical name:	-				
	Catalogue number:	TBAR-OT-	X**			
1.2.	Relevant identified use	es of the sub	stance or mix	ture and uses advised against		
	Identified uses:		Blue counte	rstain for use in TB Stain Quick kit.		
	Uses advised against:		Only the ide	entified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3.	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax:		+385 1 2404039			
	E-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone numbers				
	National Protection ar	National Protection and Rescue Di		112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. HAZARDS IDENTIFICATION				
2.1.	Classification of the substance of	or mixture			
2.1.1.	Classification according to Regu	ulation (EC) No. 127	72/2008 (CLP)		
	Hazard class and categ	ory code:	Hazard statement*:		
	Flam. Liq. 2		H225		
	Skin Corr. 1A		H314		
2.1.2.	Additional information				
	-				
*For ful	I text of Hazard- and EU Hazard-	statements: see Sec	ction 16.		
2.2.	Label elements				
	Product identification:	TB ARMAND REA	GENT		
	Identification number:	-			
	Authorization number.:	-			



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

Page 2 of 17

Trading name:	TB ARMAND REAGENT				
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4

	Hazard pictograms:	GHS02 GHS05		
	Signal word:	Danger		
	Hazard statement:	H225 Highly flammable liquid and vapor.H314 Causes severe skin burns and eye damage.		
	Precautionary statement:	P210 Keep away from heat, hot sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	Supplemental hazard information (EU):	-		
2.3.	Other hazards	Other hazards		
	Endocrine Disrupting Prope	erties:		
		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. COMPOSITION / INFORMATION ON INGREDIENTS						
CAS/ EC/ Index no.	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	30 – 50 %	ethanol	Flam. Liq. 2; H225		
7664-93-9/ 231-639-5/ 016-020-00-8	-	17 - 20%	sulphuric acid, 96%	Skin Corr. 1A; H314		

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures



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

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

Page 3 of 17

Trading name:	TB ARMAND REAGENT				
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4

	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 all contaminated clothes using sterile gauze. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the oral cavity, drink 1-2 glasses of water. Do not induce vomiting. 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 a	and effects, both acute and delayed
	Following inhalation:	Depending on concentration and exposure time, irritation of the mucous membrane of the nose/throat may occur (burning sensation, urge to sneeze, runny nose). High concentration levels may cause difficult breathing, coughing, chest tightness, headache, pneumonia and pulmonary oedema.
	Following skin contact:	Depending on concentration and exposure time, redness accompanied by sensation of stinging and pain may occur, defatting, skin cracking, rash, swelling, burns, blisters and delayed onset of inflammations.
	Following eye contact:	Depending on concentration and exposure time, mucosa stinging, lacrimation, redness and pain may occur, as well as bleeding, delayed onset of inflammations and permanent eyesight damage.
	Following ingestion:	Depending on concentration and exposure time, stinging and possible damage to the mucous membrane of the digestive tract is possible, as well as abdominal pain, nausea, vomiting (bloody vomit is possible), vertigo, headache, eyesight disorders and permanent blindness due to optical nerve damage, loss of consiousness.
4.3.	Indication of any immediate	e medical attention and special treatment needed

SECTI	SECTION 5. FIREFIGHTING MEASURES				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Water spray, dry powder, CO _{2,} alcohol-resistant foam			
	Unsuitable extinguishing media:	No information available			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous byproducts of fire:	No information available			



Page 4 of 17

Trading name:	TB ARMAND REAGENT				
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4

5.3.	Advice for firefighters		
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.		
	Cool closed containers exposed to fire with water spray, in order to prevent explosion.		
5.4.	Additional information		
	Remove sources of heat and ignition.		
	Do not contaminate the environment with extinguishing media.		

SECTIO	ON 6. ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	Advice for non-emergency personnel:				
	Protective equipmen	t:	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. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedur	es:	Mark the area using proper signs.		
6.1.2.	For emergency response	onders:			
	Use protective equip (see Section 8).	ment; in case of	finadequate ventilation use adequate airways protective equipment		
6.2.	Environmental preca	utions:			
	•	Oo not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and materia	als for containm	ent and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay b	parriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	Do not use sawdust, old cleaning rags, and tools that may cause sparks.			
6.4.	Reference to other sections				
	See Section 7 for info	See Section 7 for information about secure handling.			
	See Section 8 for information about personal protective equipment.				
	See Section 13 for information about containment.				

SECTION 7. HANDLING AND STORAGE



Page 5 of 17

Trading name:	TB ARMAND REAGENT				
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4

7.1.	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.	
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
	Other measures:		-	
7.1.2.	. Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. The	noroughly v	vash hands after work and before eating.	
7.2.	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	well ven	tightly closed and upright set containers in a tilated storage rooms at temperatures ranging to 25 °C.	
	Packaging materials:	Manufac	cturer's original packaging.	
	Requirements for storage and containers:	Keep aw tightly c	ray from food and drink. Keep the containers losed.	
	Advices for storage equipment:	be resist	age must be made of hard material; floors must cant to chemicals. There must be no drain that leads into sewage system. Secure proper on.	
	Further information on storage conditions:	and do r	place the unused material in the storage room not use empty containers for storing other ls. Do not store with incompatible materials tion 9).	
7.3.	Specific end use(s)			
	Recommendations:	-		
	Special decisions for industry sector:	-		

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION						
8.1. Control paramet	Control parameters					
Substance	CAS No	limit value	nal exposure s/short term lues	Biological limit values		
		ppm	mg/m³			
Ethanol	64-17-5	1000/-	1900/-	-		
Sulfuric acid	7664-93-9	-/-	0.05/-			



exposure:

SAFETY DATA SHEET

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

Page 6 of 17

									age o or in	1
Trading na	ame:			T	B ARMA	ND	REAGENT			
Product co	ode:	TBAR-OT-X**	Date (of com	pilation:		29 December 2	022	Version:	4
	1									
Substance:	-									
EC No:	-	CAS No:	-							
DNEL										
					lustrial					
Route of ex	posure:	Acute effect	/	Acute e			Chronic effect		Chronic effe	
0 1		local		systen	nic		local		systemic	
Oral		- 1000 mg/m ³	-			-		-		
Inhalation		1900 mg/m ³ (ethanol)	-			-		380	mg/m³ (etha	anol)
Dermal		-	-			-		343	mg/kg (etha	anol)
Critical phys	sical para	ameters: solubility, fl	ammabi	ility, cor	rosivity:		-			
				Co	nsumer					
Route of exposure:		Acute effect	/	Acute e			Chronic effect		Chronic effe	
		local	system		nic		local		systemic	
Oral		-	-			-		l l	ng/kg bw/da anol)	łУ
Inhalation		950 mg/m ³ (ethanol)	-			-		114	mg/m³ (etha	anol)
Dermal		-	-			-		206	mg/kg (etha	anol)
PNEC										
Environmer	ntal prote	ection target			PNEC					
Fresh water	•				0.96 mg/	l (etł	nanol)			
Freshwater	sedimen	nts			3.6 mg/kg (ethanol)					
Marine wat	er				0.79 mg/l (ethanol)					
Marine sed	iments				2.9 mg/kg (ethanol)					
Food chain					380-720 mg/kg kg (ethanol)					
Microorgan	nisms in s	sewage treatment			580 mg/l (ethanol)					
Soil (agricul	ltural)				0.63 mg/kg (ethanol)					
Air					no inforr	natic	n available			
8.2.	Exposu	ire controls								
8.2.1.	Approp	oriate engineering co	ontrols							
	measui	nce/mixture related res to prevent expos identified uses:	ure		•		rell ventilated room at, drink or smoke			otective
	Structu	ıral measures to prev	/ent	NI - :	C	• 1	-1-1 -			

No information available



Page 7 of 17

Trading name:	TB ARMAND REAGENT				
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4

	Organisational measures to prevent exposure:	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.
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 (EN 136) in case of higher levels of concentration in air.
8.2.2.2.	Skin protection	
	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN374. Full contact: Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min Splash contact: Gloves material: nitrile rubber Glove thickness: 0.11 mm Time until perforation: > 240 min
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN ISO 13688), and shoes (EN 13832) that cover the entire foot.
8.2.2.3.	Respiratory protection:	Suitable mask or half mask (EN 140) equipped with a combined "A-K" filter (EN 14387) and used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

SECTI	SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES				
9.1.	Information on basic physical and chemical properties				
		Value	Method		



Page 8 of 17

Trading name:	TB ARMAND REAGENT				
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4

Physical state:	liquid	No information available
Color:	blue	No information available
Odour/odour threshold:	biting/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:	29 °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
	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:	Formaldehyde vapors and air can cause explosive mixtures.		
10.4.	Conditions to avoid:	Sources of heat, sparks, ignition, and low temperature.		
10.5.	Incompatible materials:	Alkali metals, oxidants, acids and alkalis, hydrogen peroxide, phenols, iodine, iron, copper and silver compounds.		
10.6.	Hazardous decomposition products:	Carbon monoxide and formaldehyde		

SECTIO	SECTION 11. TOXICOLOGICAL INFORMATION			
11.1.	Information on toxicological effects			
	Acute toxicity:			



irritation:

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

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

Page 9 of 17

Trading name:	TB ARMAND REAGENT				
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4

Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral:	No information available	rat	LD ₅₀	No information available	7.060 mg/kg (ethanol)
Dermal:	No information available	rabbit	LD ₅₀	No information available	>20.000 mg/kg (ethanol)
Inhalation:	No information available	rat	LC ₅₀	No information available	>8.000 mg/l (ethanol)

Specif	Specific target organ toxicity - single exposure (STOT-SE):						
	Specific effects	Target organ	Note				
Oral:	No information available	No information available	-				
Dermal:	No information available	No information available	-				
Inhalation:	No information available	No information available	-				

Aspiration hazard:	No information available.

Irritation and c	orrosion				
	Exposure time	Species	Evaluation	Method	Note
Skin corrosion/irritation:	-	-	-	-	causes skin corrosion
Serious eye damage/					

Sensitization	
Skin sensitization:	May cause an allergic skin reaction.
Respiratory sensitization:	Allergic persons may display irritation.

Sympton	ns related to the physical, chemical and toxicological characteristics
Oral exposure:	Depending on concentration and exposure time, stinging and possible damage to the mucous membrane of the digestive tract is possible, as well as abdominal pain, nausea, vomiting (bloody vomit is possible), vertigo, headache, eyesight disorders and permanent blindness due to optical nerve damage, loss of consiousness.



Page 10 of 17

Trading name:		TB ARMAND REAGENT						
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4			

Dermal exposure	stinging and pa	concentration an iin may occur, de of inflammations.	fatting, skin cra		•		
Inhalation exposure:							
Eye exposure:		concentration an , as well as bleed	•		•		
Repeate	ed dose toxicity (sub	acute, subchroni	c, chronic)				
	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	-	



Page 11 of 17

Trading name:	TB ARMAND REAGENT						
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4		

		Specific e	ffects	Target organ	Note		
Subacu	te oral	No information a	available	No information available	-		
Subacu	te dermal	No information a	available	No information available	-		
Subacu	te inhalation	No information a	available	No information available	-		
Subchr	onic oral	No information a	available	No information available	-		
Subchr	onic dermal	No information a	available	No information available	-		
Subchr	Subchronic inhalation No information		available	No information available	-		
Chronic oral No information		available	No information available	-			
Chronic	Chronic dermal No information		available	No information available	-		
Chronic	cinhalation	No information a	available	No information available	-		
	CMR effects (carcino	genicity, mutagenici	ty, reprodu	ctive toxicity)			
	Carcinogenicity:		No information available				
	Mutagenicity in-vitro	:	No information available				
	Genotoxicity:		No information available				
	Mutagenicity in-vivo:		No information available				
	Germ cell mutagenici	ity:	No information available				
	Reproductive toxicity	:	No information available				
	Summary of evalua properties; :	tion of the CMR	No inform	nation available			
11.2.	Information on other	hazards:					
11.2.1.	Endocrine disrupting	properties:					
	No known endo	ocrine disrupting human health.					
11.2.2.	Other informations:						
	_						

SECTION 12. ECOLO	SECTION 12. ECOLOGICAL INFORMATION								
12.1. Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC ₅₀	96 hours	Fish	No information available	8.140 mg/l (ethanol)				
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-			



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

Page 12 of 17

Trading name:	TB ARMAND REAGENT						
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4		

Algae/aquatic plants	IC ₅₀	8 days	algae	No information available	5.000 mg/l (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	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2. Persistence and degradability

Abiotic degradation

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

Biodegradation

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

12.3. Bioaccumulative potential

Octanol-water partition coefficient (log Kow)

Value	Concentration	рН	°C	Method	Evaluation	Note
No information available	No information available	_	_	No information available	No information available	No information available



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

Page 13 of 17

Trading name:	TB ARMAND REAGENT					
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4	

BIC	oconcentration	Factor (BCF))							
Valu	е	Species			Method				Evaluation	Note
No informa available		inform ilable	ation	No infor	mation ava	ailable		No infor	mation available	-
Ch	ronic ecotoxic	ty	:							
V	'alue	Dose		oosure eriod	Organi	sm	N	Method	Evaluation	Note
Chronic tox	icity on fish	LC ₅₀	No infori availa	mation able	No informati available	ion i		mation able	No information available	-
Chronic tox crustacea (I	•	EC ₅₀	No infori availa	mation able	No informati available	ion i	_	mation able	No information available	-
Kn	own or presun	and distribut								
No	information a rface tension:		ion in 6	environme	ent:					
No	information a				ent: Concentrat	tion			Method	Note
Su No	o information a rface tension: Value	vailable °C						No infor	Method mation available	Note -
Su No	o information a rface tension: Value o information	vailable °C			Concentrat			No infor		
No Su No av	o information a rface tension: Value o information ailable	vailable °C No information			Concentrat		2	No infor		
No Su No av	o information a rface tension: Value o information ailable Isorption / des A/D coe	No information available orption officient constant	rmation		Concentrat ormation a					
No Su No av	o information a rface tension: Value o information ailable Isorption / des A/D coe	vailable °C No information orption	rmation	No info	Concentration a representation and the second secon	available	tion		mation available	-
No Su No av.	o information a rface tension: Value o information ailable Isorption / des A/D coe Henry's of available	No information available orption officient constant	rmation	log Pow informa	Concentration a community of the communi	evailable Evapora	tion		Method No information	-



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

Page 14 of 17

Trading name:	TB ARMAND REAGENT						
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4		
	ŧ.	1	1				

12.5.	Results of PBT and vPvB assessment
	Based on available data, the product does not contain any PBT or vPvB substances.
12.6.	Endocrine disrupting properties
	Based on available data, does not contain endocrine disruptors.
12.7.	Other adverse effects
	No information available
SECTIO	ON 13. DISPOSAL CONSIDERATIONS
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Waste material must be disposed of according to the national and local rules and regulations. Do not
	mix with other sorts of waste. Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
	Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
13.1.2.	15 01 10*: packaging that contains residual hazardous substances or is contaminated with hazardous
	substances
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors
	authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit
	the packaging to the collectors authorized by the ministry in charge.
13.1.6.	Relevant Community provisions:
	-
SECTIO	ON 14. TRANSPORT INFORMATION
	Land transport (ADR)
UN nur	mber: 2924



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

Page 15 of 17

Trading name:	TB ARMAND REAGENT					
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4	

UN proper shipping name:	Flammable liquid, corrosive, n.o.s. (ethanol, sulphuric acid)
Transport hazard class(es):	3 (8)
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Land transport by rail (RID)	
UN number:	2924
UN proper shipping name:	Flammable liquid, corrosive, n.o.s. (ethanol, sulphuric acid)
Transport hazard class(es):	3 (8)
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	2924
UN proper shipping name:	Flammable liquid, corrosive, n.o.s. (ethanol, sulphuric acid)
Transport hazard class(es):	3 (8)
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Sea transport (IMDG)	
UN number:	2924
UN proper shipping name:	Flammable liquid, corrosive, n.o.s. (ethanol, sulphuric acid)
Transport hazard class(es):	3 (8)
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Air transport (ICAO-TI/IATA-DGR	
UN number:	2924
UN proper shipping name:	Flammable liquid, corrosive, n.o.s. (ethanol, sulphuric acid)
Transport hazard class(es):	3 (8)
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-



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

Page 16 of 17

Trading name:	TB ARMAND REAGENT				
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4

Further information:	_		

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	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; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);		
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds guideline)			
	National regulation:	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:	-	



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

Page 17 of 17

Trading name:	TB ARMAND REAGENT		REAGENT		
Product code:	TBAR-OT-X**	Date of compilation:	29 December 2022	Version:	4

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:	-
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)	
Classification		Classification procedure
-		-

16.5.	Relevant H statements (number and full text)	
	H: H225	Highly flammable liquid and vapour.
	H314	Causes severe skin burns and eye damage.
16.6.	Training advice:	-
		** "X" in the product code marks different volumes (different packaging of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

