

TB-STAIN ECO KIT

The kit contains:

TB Fuchsin reagent TB Decolorizer Methylene Blue Loeffler reagent



Page 1 of 17

Trading name:		TB - FUCHSIN	I REAGENT		
Product code:	TBFR-OT-X**	Revision date:	23 Dec 2022	Version:	2

1.1	Product identifier					
	Trading name:	TB FUCHSI	TB FUCHSIN REAGENT			
	Chemical name:	-				
	Catalogue number:	TBFR-OT-X	**			
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against		nixture and uses advised against			
	Uses:		For use	with TB-Stain ECO kit.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd. Medjugorska 59, Zagreb			
	Address:					
	Telephone number:		+385 1 2	2409997		
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection an	d Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	N 2. Hazards identification				
2.1	Classification of the substance	or mixture			
2.1.1	Classification according to Reg	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and categ	ory code:		Hazard statements*:	
	Flam. Liq. 3		H226		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	-statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	TB FUCHSIN REAGENT			
	Identification number:	-			
	Authorization number:	-			



Page 2 of 17

Trading name:		TB - FUCHSIN	I REAGENT		
Product code:	TBFR-OT-X**	Revision date:	23 Dec 2022	Version:	2

	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statements:	H226 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	
	Results of PBT and vPvB asses PBT or vPvB substances.	wn specific hazards for human or environment. ssment: Based on available data, the product does not contain any y: Based on available data, does not contain endocrine disruptors.

SECTION 3. Co	mposition/information	on ingredients		
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	10 – 20 %	ethanol	Flam. Liq. 2; H225

SECTI	ECTION 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.		
	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.		



Page 3 of 17

Trading name:		TB - FUCHS	SIN REAGENT		
Product code:	TBFR-OT-X**	Revision date:	23 Dec 2022	Version:	2

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

SECTIO	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	ibstance 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 sipate alcohol vapours.
5.4	Additional information	
	-	



Page 4 of 17

Trading name:		TB - FUCHS	IN REAGENT		
Product code:	TBFR-OT-X**	Revision date:	23 Dec 2022	Version:	2

6.1	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Avoid contact with skin, eyes and clothing and inhaling gases, vapours and aerosols. Ensure adequate ventilation. Vapours may accumulate at floor level in low and confined spaces. Remove all heat, ignition and spark sources, turn off machines. Ignition spark arrestor must not be operated in the danger area. Use spark-proof tools. Be aware of the risk of slipping.			
6.2	Environmental precautions:			
	Dispose of the spillage and the resulting waste according to the applicable environmental regulations not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify respective authorities in accordance with local law in the case of environmental pollution immediate			
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.	Uther Information.	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
6.4	Reference to other sectionsSee Section 7 for information of	on safe handling.		

SECTIC	DN 7. Handling and storage
7.1	Precautions for safe handling
7.1.1.	Protection measures



Page 5 of 17

Tradir	ng name:		ТВ	- FUCHS	IN REAGENT			
Produ	ict code:	TBFR-OT-X**	Revision	date:	23 Dec 2022	Version:	2	
	Measures	s to prevent fire:			Use in well ventilat away from heat, he flames and other smoking. Use no equipment.	ot surfaces, sparks, r ignition sources	open s. No	
	Measures	to prevent aerosol and	dust generation	า:	Ensure adequate ve	entilation.		
	Measures	to protect the environ	ment:		Prevent spilling into and waterways.	o the sewage syste	m	
	Other me	asures:			Protect against elec	ctrostatic charges.		
7.1.2.	 Advice on general occupational hygien Do not eat, drink or smoke in the world 		hygiene:					
	Do not ea	at, drink or smoke in the	e workspace. The	proughly v	vash hands after work a	and before eating.		
7.2	Conditions for safe storage, including any incompatibilities							
	Technical	Store in a well-ventilated place, protected from sun away from sources of heat and ignition, in its orig unopened and hermetically sealed packaging, from oxidizing agents, food, feed and article consumption.						
	Packagin	g materials:		Manufa	cturer's original packag	ing.		
	Requirem	ents for storage rooms	and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices f	or 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 ir	formation on storage o	conditions:	and do	place the unused mate not use empty conta Ils. Do not store with inc 10).	ainers for storing	other	
7.3	Specific e	end use(s)						
	Recomm	endations:		-				
	Industrial	sector specific solution	IS:	-				

SECTION 8. Exposure contro	SECTION 8. Exposure controls/personal protection									
8.1 Control parameters										
Substance	CAS No		exposure limit t term values	Biological limit values						
		ppm	mg/m ³	-						
Ethanol	64-17-5	1000/-	1900/-	-						
Substance name: -										



Page 6 of 17

Trading na	me:				T	B - FUCH	ISIN REAGENT		5	
Product co	de:	TBFR-O	T-X**		Revisi	on date:	23 Dec 202	22	Version:	2
EC No:		-	CAS No):	-					
DNEL										
-						dustrial				
Route of exposure:		Acu effect		offo	Acute ct systemi	c	Chronic effect local		Chronic effect systemic	
Oral		enect	IUCAI	-	ct systemi	-		-	enect systemic	
Inhalation		1900 mg (ethanol)		-		-			/m ³ (ethanol)	
Dermal		<u>(ethanoi)</u> -)	_		_		343 mg	/kg (ethanol)	
Critical phys	ical para	meters: s	olubility	l flamn	ability co	rrosivity [.]	_		, kg (ethanol)	
			, orability ,			nsumer				
Route of		Ad	cute		Acute		Chronic		Chronic	
exposure:			t local	effe	ect systemi	с	effect local	e	effect systemic	
Oral		-		-		-		87 mg/	kg bw/day (eth	anol)
Inhalation		950 m (ethan	0	-		-		114 mg	/m ³ (ethanol)	
Dermal		-		-		-		206 mg	/kg (ethanol)	
PNEC										
Environmen	tal prote	ction tar	get			PNEC				
Fresh water						0.96 mg/	l (ethanol)			
Freshwater s	sediment	ts				3.6 mg/k	g (ethanol)			
Marine wate	er					0.79 mg/	l (ethanol)			
Marine sedir	ments					2.9 mg/k	g (ethanol)			
Food chain						380-720	mg/kg (ethanol)			
Microorgani	isms in s	ewage tr	eatment			580 mg/l	(ethanol)			
Soil (agricult	tural)					0.63 mg/	kg (ethanol)			
Air						no inforn	nation available			
8.2	Exposur	re contro	ls							
8.2.1.	Approp	riate eng	ineering	contro	ls					
		-	ire related e during			concentra concentra existing	of a hazardous ation limit it is ation levels down scientific and tec is substance pose	the employ n to a minir chnological	ver's duty to k mum achievable means, where	keep e by
	Structur		ires to pr	event		In accord	ance with Section	17.		



				•		Page 7 of 17				
Trading	name:		1	B - FUCHS	SIN REAGENT					
Product	code:	TBFR-OT-X**	Revisi	Revision date:23 Dec 2022Version:2						
	Orgar expos	nisational measures to p ure:	revent	J	on of work in order to r luring work process.	educe other worker's	S			
	Techn	ical measures to preven	t exposure:	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 ap	propriate personal prot d eye-wash station.		afety			
8.2.2.	Perso	nal protection equipmer	ction equipment							
8.2.2.1.	Eye ar	nd face protection:		propriate, cl 321-1:2022,	nemical-proof protective EN 166).	e glasses/face shield	(EN			
8.2.2.2.	Skin p	protection	t							
	Hand	protection:	Use ap	propriate, cl	nemical-resistant protec	tive gloves (EN 374).	•			
	Other	skin protection:	Use ap	propriate pr	otective clothing.					
8.2.2.3.	Respi	ratory protection:	concer in the contac	ntration of et air, use a t and if the c	l usage and ventilation hyl alcohol exceeds occ self-contained breathi oxygen content of the ai ask with filter A (EN 148	upational exposure l ng apparatus. For s r is greater than 18 %	imits short			
8.2.2.4.	Therm	nal hazards:	No the	rmal hazard	s known.					
8.2.3.	Enviro	onmental exposure conti	rols							
		ance/mixture related ures to prevent exposure	e: See Se	ction 6						
	Struct expos	ural measures to prever ure:	nt Use mo	Use modern equipment.						
	-	nisational measures to nt exposure:		Adapt the work process to the required working conditions of the workplace.						
	Techn expos	ical measures to preven ure:	^{it} See Se	See Section 6						

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



Page 8 of 17

Trading name:		TB - FUCHS	IN REAGENT		
Product code:	TBFR-OT-X**	Revision date:	23 Dec 2022	Version:	2

Other information		
Particle characteristics:	No information available	No information available
Relative vapour density:	No information available	No information available
Density and/or relative density:	No information available	No information available
Vapour pressure:	No information available	No information available
Partition coefficient n- octanol/water (log value):	No information available	No information available
Solubility:	No information available	No information available
Kinematic viscosity:	No information available	No information available
pH:	No information available	No information available
Decomposition temperature:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Flash point:	47 °C	No information available
Lover and upper explosion limit:	No information available	No information available
Flammability:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available

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. Toxic	ological info	rmation						
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008								
Acute toxic	city:							
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results			
Oral:	-	rat (ethanol)	LD ₅₀	-	7.060 mg/kg			
Dermal:	-	rabbit (ethanol)	LD ₅₀	-	>20.000 mg/l			



Page 9 of 17

Trading name:				TR		SIN REAGEN	т	r age s		
Product code:	т	- rat (ethanol) t organ toxicity – single exp Specific effects lo information available lo information available lo information available corrosion Exposure time No information ava	evision		23 Dec 2		Vers	ion	2	
Floduct code.	1		n	EVISION	uale.	23 Dec 2	.022	VEIS	1011.	2
Inhalation:		-	rat (ethanol)		LC ₅₀		4 h		>8.000 r	mg/l
Specific	targe	t organ toxicit	y – single exp	oosure (S	TOT SE):					
		Spec	ific effects			Target orgai	n	l	Note	
Oral:	N	lo information	available		No info	ormation avail	able -			
Dermal:	N	lo information	available		No info	ormation avail	able -			
Inhalation:	N	lo information	available		No info	ormation avail	able -			
Aspirati	on ha	zard:		No infor	mation a	vailable.				
Irritation	n and	corrosion					-	;		
		Exposur	e time	Spec	ies	Evaluation	Method		Note	
Skin		-		-		-	-	-		
corrosion/irritatio	on:									
Serious eye damage/irritatio	n	-		-		-	-	-		
Sensitiza	ation									
Skin sensitizatior	ו:	No inf	ormation ava	ilable.						
Respiratory sensi	itizatio	on: No inf	ormation ava	ilable.						
Sympto	ms re	lated to the pl	nysical, chemi	cal and t	oxicolog	ical characteri	istics			
Oral exposure:		unconscious	ness and alco	hol poisc	oning. In	case of swallo	wing great qu			
Dermal exposure	:	After prolon cracking of s		ated exp	oosure s	ymptoms ma	y include: d	efatting,	drynes	s and
Inhalation expos	ure:	Inhalation of membranes.	great quantit	ies may o	cause diz	ziness, eupho	ria and mild iı	rritation o	of the m	ucous
Eye exposure:		May cause ir	ritation and r	edness.						
Repeate	ed dos	se toxicity (sub	acute, subch	ronic, chi	ronic)					
		Dose	Exposure time	Speci	es	Method	Evaluatio	on	Note	
Subacute oral		information lable	No information available	No inforn availa	nation ble	No information available	No infor available		-	



No information

No information

No information

available

available

available

information

information

information

available

available

available

No

No

Chronic oral

Chronic dermal

Chronic

inhalation

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

Page 10 of 17

No information

No information

No information

available

available

available

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Trading name:		TB - FUCHSIN REAGENT									
Product code:	TBFR-OT-X**		evision date:	23 Dec 202	22	Version:					
Subacute dermal	No information available	No information available	No information available	No information available	No informa available	tion _					
Subacute inhalation	No information available	No information available	No information available	No information available	No informa [.] available	tion _					
Subchronic oral	No information available	No information available	No information available	No information available	No informa available	tion _					
Subchronic dermal	No information available	No information available	No information available	No information available	No informa available	tion _					
Subchronic inhalation	No information available	No information available	No information available	No information available	No informa available	tion _					
	No information	No	No	No	No informa	tion					

information

information

information

available

available

available

No

No

information

information

information

available

available

available

No

No

	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	-
Chronic inhalation	No information available	No information available	-



Page 11 of 17

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Trading name:		TB - FUCHSIN REAGENT									
Produc	Product code: TBFR-OT-X**		Revisi	ion date:	23 Dec 2022	Version:	2				
	1										
	Mutagenicity in vitro:		Bas	sed on availa	ble data, the classificati	on criteria are not n	net.				
	Genotoxi	city:	Bas	sed on availa	ble data, the classificati	on criteria are not n	net.				
	Mutagenicity in vivo:		Bas	sed on availa	ble data, the classificati	on criteria are not n	net.				
	Germ cell mutagenicity:			sed on availa	ble data, the classificati	on criteria are not r	net.				
	Reproductive toxicity:			Based on available data, the classification criteria are not met.							
	Summary properties		CMR	Based on a met.	available data, the class	sification criteria ar	re not				
11.2	Informatio	on on other hazards:									
11.2.1.	Endocrine	e disrupting properties:									
		available data, does not contain e disruptors.									
11.2.2.	Other info	ormations:									
	-										

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					
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	-					



Page 12 of 17

Trading name:					TB - FUCHSIN REAGENT						
Product code: TBFR-OT-X**				F	Revision date:	23 Dec 20	23 Dec 2022		Version:		
Algae/aquatic plants		nts IC ₅₀ 72 hours		•	No information available	No information available	No inf availal	ormation ole	_		
Other organism	S	-	-		-	-	-		-		
12.2 Persiste Abiotic		nd degradab	ility								
7 1010 110		gradation ha	lf-lives		Method	Evaluatio	on	Ν	lote		
Marine water		o information available			o information ailable	No informatic available		-			
Fresh water	No ir	No information available			o information ailable	No informatic available	'n	-			
Air	No ir	n information available			o information ailable	No information available		-			
Soil	No ir	nformation av	vailable	No information available		No information available		-			
Biodeg	radatio	on									
% Degradatio	n	Time (d	ays)		Method	Evaluatio	on	Ν	lote		
No information available		No inf available	ormation	No information available		No informatic available	n	No inform available	ation		
		ive potential er partition co		log	Kow)						
Value	Con	centration	рН	°C	Method	Evalu	uation		Note		
-	-			-	-	-		-			
Biocon	centra	tion factor (B	CF)								
Value		Specie	S		Method	Evaluat	ion		Note		
-	N av	o info vailable	ormation		information ailable	No informat available	ion	-			



Page 13 of 17

Trading name:		TB - FUCHSIN REAGENT								
Product code:	TBFR-OT-X**	Revision date:	23 Dec 2022	Version:	2					

	Chroni	c ecoto	xicity			1						
	Value	ue Dose		Exposure time	Species N		hod	Evaluation	n Note			
Chroni	ic toxicity	on fish	LC ₅₀	information	No inform availab			No informatio available	n -			
	ic toxicity cea (<i>Daph</i>		EC ₅₀	information	No inform availab			No informatio available	n -			
12.4	Mobilit	y in soi	il									
	Known	or pre	dicted distributi	on in environme	ental co	mpartments:						
	No info	lo information available										
	Surface	e tensio	n:	1				1				
	Val	ue	°C	Concentrati	ion	Meth	od		Note			
	NoNoinformationinformationavailableavailable		information	No informati available		n No information available		-				
			desorption D coefficient									
Transp	ort	Hen	nry's constant	log Kow	Evaporation rate		e Method		Note			
Soil-wa	ater	No availa	information able	No information available		No information available		nformation able	-			
Water-	-air	No availa	information able	No informatior available		No information available		nformation able	-			
Soil-ai	r	No availa	information able	No information available		information ilable	No information available		-			
12.5			and vPvB asses	ssment product does not	tcontai	in any DRT or		hstancos				
	Daseu (JII AVAI					טא טי א					
12.6.	Endocr	ine disı	rupting propert	ies								



Page 14 of 17

Trading name:		TB - FUCHSIN REAGENT							
Product code:	TBFR-OT-X**	Revision date:	23 Dec 2022	Version:	2				

12.7.	Other adverse effects				
	Do not let the product or it	s residues reach sewer system, waterways and soil.			
SECTIO	N 13. Disposal considerati	ons			
13.1	Waste treatment method	ls			
13.1.1.	Product/Packaging dispo	isal:			
	Submit for disposal to th Protection.	e legal person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste desig	nations according to Law:			
	Packaging that contains	residual hazardous substances or is contaminated with hazardous substances			
13.1.3.	Waste treatment – releva	int information:			
	No information available				
13.1.4.	1.4. Sewage disposal – relevant information:				
	Waste must not be dispo	used of into the sewage system.			
13.1.5.	authorized by the minist	ndations: roduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Unused product residues may be			
12.1.6	burnt.	· · · ·			
13.1.6.	Relevant Community pro				
	Disposal must be made a	according to official regulations.			
SECTIO	N 14 TRANSPORT INFORM	ΙΑΤΙΟΝ			
	Transporting/shipment by	road (ADR)			
UN num	ber:	1170			
UN prop	er shipping name:	Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing		III			
	nentally hazardous:	-			
Special p	precautions for user:	-			
	Transporting/shipment by	rail (RID)			
UN num	ber:	1170			



Page 15 of 17

					i age ie ei ii					
Trading name:	TB - FUCHSIN REAGENT									
Product code:	TBFR-OT-X**		Revision date:	23 Dec 2022	Version:	2				
UN proper shipping name:		Eth	anol solution							
Transport hazard class(es):		3								
Packing group:		III								
Environmentally h	azardous:	-								
Special precautior	ns for user:	-								
Inland wa	aterway transport (AD	ON)								
UN number:		117	0							
		=.1								

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

Further information:	not subjected to classification.
	IATA: Special provision A58 - Aqueous solution containing 24% or less alcohol volume,
	not subjected to classification.

SECTION 15. Regulatory information

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



Page 16 of 17

Trading name:		TB - FUCHSIN REAGENT								
Product code:	TBFR-OT-X**	Revision date:	23 Dec 2022	Version:	2					

	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 an Restriction of Chemicals (REACH), establishing a European Chemicals Agence amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EE 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 200 on the limitation of emissions of volatile organic compounds due to the use of organ solvents in certain paints and varnishes and vehicle refinishing products an amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safet 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 1 December 2008 on classification, labelling and packaging of substances and mixture 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 certaid 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
5	None	

SECTION 16. Other information		
16.1 Indication of changes:	-	



Page 17 of 17

Tradin	ig name:		TB - FUCH	SIN REAGENT	2		
Produ	ct code:	TBFR-OT-X**	Revision date:	23 Dec 2022	Version:	2	
16.2	Abbreviat	ions and acronyms:	DNEL:Derived No-Effect LLC50:Lethal concentratioLD50:Lethal dose, 50 perPBT:Persistent, Bioaccur	t Concerning the Internation ne Code for Dangerous Go nsport Association d System of Classification a y of Existing Commercial C Service (division of the Am evel (UK REACH) n, 50 percent cent	onal Carriage of Dang ods and Labelling of Chem hemical Substances	gerous	
16.3.	Key literat source of	ture references and data:	-				
16.4.	Classificat 1272/2008	· · · · · · · · · · · · · · · · · · ·	sed to derive the classificat	ion for mixture accordin	ig to Regulation (EC	.)	
Classifi	cation		Classification procedure				
-			-				
16.5.	Relevant I	H statements (numb	er and full text)				
	H: 2	225	Highly flammable liquid and vapor.				
	2	226	Flammable liquid and vapo	r.			
16.6.	Training a	dvice:	-				
16.7.	Further in	formation:	** "X" in the product code r the product) We are not responsible for instructions for use or impr material safety data sheet.	consequences in case o	f failure to comply v	5	

ANNEX: Exposure scenario resulting to chemical safety assessment

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Page 1 of 17

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

1.1	Product identifier					
	Trading name:	TB DECOLO	DRIZER			
	Chemical name:	-				
	Catalogue number:	TBD-OT-X**				
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against		
	Uses:		For use	in TB-Stain Cold and TB-Stain Hot kit.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:	National contact:				
1.4	Emergency telephone	number				
	National Protection ar	d Rescue Dire	ectorate:	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 12	272/2008 (CLP)		
	Hazard class and catego	ory code:		Hazard statements*:	
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	TB DECOLORIZER			
	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	vn 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	

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

SECTI	SECTION 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 DECOL			
Product code: TBD-O	T-X**	Revision date:	21 Dec 2022	Version:	5

 5.4
 Additional information

SECTIO	ON 6. Accidental release meas	ures				
6.1	Personal precautions, protecti	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:					
	Avoid contact with skin, eyes and clothing and inhaling gases, vapours and aerosols. Ensure a ventilation. Vapours may accumulate at floor level in low and confined spaces. Remove all he and spark sources, turn off machines. Ignition spark arrestor must not be operated in the dar 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 regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.					
6.3	Methods and material for con	tainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.				
6.3.2.	Cleaning up:	Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. During the collection, placement, disposal of the waste, wear appropriate individual protective equipment. Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution).				
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					
	See Section 7 for information	on safe handling.				
		on personal protection equipment.				
	See Section 13 for disposal inf	ormation.				

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



Page 5 of 17

Trading name:		TB DEC	DLORIZER		
Product code:	TBD-OT-X**	Revision date:	21 Dec 2022	Version:	5
				tod stars as reasons	

	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. Th	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incom				
	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 o consumption.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.		
	Advices for storage equipment:	The storage must be made of hard material; floors mu be resistant to chemicals. There must be no drain th directly leads into sewage system. Secure prop ventilation.			
	Further information on storage conditions:	and do n	ace the unused material in the storage room ot use empty containers for storing other Do not store with incompatible materials (see).		
7.3	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			

SECTION 8. Exposure controls/personal protection								
8.1 Control parameter	Control parameters							
Substance	CAS No		exposure limit t term values	Biological limit values				
		ppm	mg/m ³					
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**		Revisio	on date	21 Dec 2022		Version:	5
Substance r	name:	-	1						_	
EC No:		-	CAS No):	-					
DNEL										
					Inc	dustrial				
Route of		Acu			Acute		Chronic		Chronic	
exposure:		effect	local		t systemio		effect local		effect systemic	
Oral		- 1900 mg	1/m ³	-		-		-		
Inhalation		(ethanol)		-		-		380 mg	/m ³ (ethanol)	
Dermal	-	-		-		-		343 mg	/kg (ethanol)	
Critical phys	sical para	meters: s	olubility,	flamma	ability, cor	rrosivity:	-			
					Co	nsumer				
Route of			cute		Acute		Chronic		Chronic	
exposure:		effec	t local	effec	t systemi	с	effect local		effect systemic	
Oral		-	, 2	-		-		87 mg/	kg bw/day (eth	nanol)
Inhalation		950 m (ethan	0	-		-		114 mg	/m ³ (ethanol)	
Dermal		-		-		-		206 mg	/kg (ethanol)	
PNEC										
Environmer	ntal prote	ction tar	get			PNEC				
Fresh water						0.96 m	g/l (ethanol)			
Freshwater	sediment	S				3.6 mg/kg (ethanol)				
Marine wate	er					0.79 m	g/l (ethanol)			
Marine sedi	iments					2.9 mg,	'kg (ethanol)			
Food chain						380-72	0 mg/kg (ethanol)			
Microorgan	isms in se	ewage tr	eatment			580 mg	/l (ethanol)			
Soil (agricul	ltural)					0.63 m	g/kg (ethanol)			
Air						no info	rmation available			
8.2	Exposur	e contro	ls							
8.2.1.	Approp	riate eng	ineering	control	5					
		-	ire related e during			concen concen existing	e of a hazardous r tration limit it is th tration levels down scientific and tech ous substance poses	e employ to a minir nological	ver's duty to num achievabl means, where	keep le by



Page 7 of 17

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

	Structural measures to prevent exposure:		In accordance with Section 7. Organization of work in order to reduce other worker's influence during work process.		
	Organisational measures to preve exposure:	ent			
	Technical measures to prevent ex	posure:	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 adoguate 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 (E ISO 16321-1:2022, EN 166).			
8.2.2.2.	Skin protection				
	Hand protection: Use ap		appropriate, chemical-resistant protective gloves (EN 374).		
	Other skin protection:	Use ap	propriate protective clothing.		
8.2.2.3.	Respiratory protection:	In case of normal usage and ventilation, it is not necessar concentration of ethyl alcohol exceeds occupational exposure li in the air, use a self-contained breathing apparatus. For s contact and if the oxygen content of the air is greater than 18 %, a protective 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 modern 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		

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



Page 8 of 17

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

Boiling p point an Flammal Lover an Flash po Auto-igr Decomp pH: Kinemat Solubility Partition octanol/ Vapour Density	nd upper explosion limit:	 No information available No information available No information available No information available 17 °C No information available 	No information available No information available No information available No information available No information available
point an Flammal Lover an Flash po Auto-igr Decomp pH: Kinemat Solubility Partition octanol/ Vapour Density	nd boiling range: bility: nd upper explosion limit: bint:	No information available No information available 17 °C	No information available No information available
Lover an Flash po Auto-igr Decomp pH: Kinemat Solubility Partition octanol/ Vapour Density	nd upper explosion limit: bint:	No information available	No information available
Flash po Auto-igr Decomp pH: Kinemat Solubility Partition octanol/ Vapour Density	bint:	17 °C	
Auto-igr Decomp pH: Kinemat Solubilit Partition octanol/ Vapour Density		-	No information available
Decomp pH: Kinemat Solubility Partition octanol/ Vapour Density	nition temperature:	No information available	
pH: Kinemat Solubilit Partition octanol/ Vapour Density		INO INFORMATION available	No information available
Kinemat Solubilit Partition octanol/ Vapour Density	oosition temperature:	No information available	No information available
Solubility Partition octanol/ Vapour Density		7.0 – 8.0 (20°C)	No information available
Partition octanol/ Vapour Density	tic viscosity:	No information available	No information available
octanol/ Vapour Density	y:	No information available	No information available
Density	n coefficient n- /water (log value):	No information available	No information available
, ,	pressure:	No information available	No information available
	and/or relative density:	No information available	No information available
Relative	vapour density:	No information available	No information available
Particle		No information available	No information available
9.2 Other in	characteristics:		

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

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



Page 9 of 17

	BD-OT-X**	Re	vision		OLORIZER				
	BD-OT-X**	Re	vicion						
			VISION	date:	21 Dec	2022		Version:	5
Route of exposure:	Method	Species	Dc	ose LD ₅₀ / ATE _m		Exposure t	ime	Resul	ts
Oral:	-	rat (ethanol)		LD ₅₀)	-		7.060 m	g/kg
Dermal:	-	rabbit (ethanol))	LD ₅₀)	-		>20.000	mg/l
Inhalation:	-	rat (ethanol)		LC ₅₀		4 h		>8.000	mg/l
Specific targe	t organ toxi	city – single expo	osure (S	TOT SE):					
_		ecific effects			Target or	jan		Note	
Oral: N	lo informatio	on available		No info	ormation ava	ailable	-		
Dermal: N	lo informatio	on available		No info	ormation ava	ailable	-		
Inhalation: N	No information available No information			ormation av	ailable	-			
Aspiration ha	zard:	Ν	o inforr	mation a	vailable.				
Irritation and	corrosion								
Intation and		ure time	Spec	ies	Evaluation	Method	4	Note	
Skin corrosion/irritation:	-	-			-	-	-		
Serious eye damage/irritation	-	-			-	-	-		
Sensitization									
Skin sensitization:	No i	nformation avail	able.						
Respiratory sensitization	on: No i	nformation avail	able.						
Symptoms re	lated to the	physical, chemica	al and t	ovicoloc	ical charact	eristics			
Oral exposure:	Absorption unconsciou	of great q usness and alcoh nay occur. Repea	uantitie ol poiso	es may oning. In	cause d case of swal	izziness, dı llowing grea	t quant	ities, nausea	
Dermal exposure:	After proto cracking of	onged or repea skin.	ted exp	oosure s	symptoms r	nay include	defat	ting, drynes	s an
Inhalation exposure:	Inhalation membrane	of great quantitie s.	es may o	cause diz	ziness, eupł	noria and mil	d irrita	tion of the m	iucou
Eye exposure:	May cause	irritation and red	dness.						



Page 10 of 17

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

Chronic	: inhalation	No information availabl	e		No information available	-	
	CMR effects (carcinogenicity; mutagenic	itv: re	enroductive t	oxicity)		
	Carcinogenic		-	•	ble data, the classification (criteria are not met.	
	Mutagenicity				ble data, the classification of		
	Genotoxicity:		Ba	sed on availa	ble data, the classification of	criteria are not met.	
	Mutagenicity	in vivo:	Ba	sed on availa	ble data, the classification of	criteria are not met.	
	Germ cell mu	tagenicity:	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
	Reproductive	toxicity:					
	Summary of evaluation of the C properties:		CMR	Based on a met.	available data, the classific	ation criteria are not	
11.2	Information o	on other hazards:					
11.2.1.	Endocrine dis	srupting properties:					
	Based on ave endocrine dis	ailable data, does not cor sruptors.	ntain				
11.2.2.	Other inform	ations:					
	-						

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

TBD-OT-X* LC50 EC50 IC50 - and degradation Degradation I Do information Do information	96 hours 48 hours 72 hours - ability half-lives available	Revision d No inform available No inform available No inform available Image: A state of the state	ation No inform availa ation No inform availa ation No inform availa - En No inf availa	nation ble nation ble Evaluatior	No inform available No inform available No inform available -	nation	on: 5
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		avanubic		No information available		-	
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ation							
	(days)	Method	I	Evaluatior	n	N	ote
		No informationavailable	on No in	No information			tion
lative potenti	ial						
•		og Kow)					
oncentration	рН		ethod	Evalua	ation		Note
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	ation Time No i available	ation Time (days) No information available lative potential ater partition coefficient (l pncentration pH	Information available available ation Time (days) Method No information available No information available lative potential Interpretation ater partition coefficient (log Kow) Method	Information available available ation Time (days) Method No information No information No in available available No information available available ative potential Information No information No information attive potential Information No information No information attive potential Information No information No information ater partition coefficient (log Kow) Information PH °C	Information available available available ation Time (days) Method Evaluation No information No information No information available available available lative potential Image: state of the state of th	Information available available available ation Time (days) Method Evaluation No information No information No information available available available available lative potential ater partition coefficient (log Kow) Method Evaluation	Information available available available ation Time (days) Method Evaluation No information available No information available No information available No information available lative potential Image: state of the s



Page 13 of 17

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

			on factor (BCF)									
	Value		Species		Method			Evaluation			Note	
BCF: 0.66		-	No information available		No information available			No information available		-		
	Chronic	c ecoto	kicity									
	Value		Dose	-	osure ime	Spec	ies	Meth	od	Eva	luation	Note
Chroni	ic toxicity	on fish	LC ₅₀	No infor availa	mation	No informa availab		No informa availab		No infor availa	mation able	-
	Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No infor availa	mation	No informa availab		No informa availab		No infor availa	mation able	-
		ormatio	licted distributi n available n:	on in e	environme	ental co	mpartr	ments:				
	No info	ormation tension	n available		environme oncentrat		mpartr	ments: Metho	d			Note
	No info Surface	tension ue ation	n available n:	C		ion on I		Metho			-	Note
	No info Surface Valu No informa	tension ue ation	n available n: °C No information	C	oncentrat informati	ion on I	No info	Metho			-	Note
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Transp Soil-w	No info Surface Valu No informa availabl Adsorp	tion / d	n available n: °C No information available esorption coefficient ry's constant information	C No ava	oncentrat informati iilable og Kow	ion I ion I Eva	No info availab	Metho ormation le		Metho	d	
	No info Surface Valu No informa availabl Adsorp	tion / d Alion / d Alion / d	n available n: °C No information available esorption coefficient ry's constant information ble information	C No ava	oncentrat informati iilable og Kow nformation able	ion I ion I Eva n No i avai n No i	No info availab	Metho ormation le on rate ation	No ir availa	Metho nforma able nforma	d tion tion	



Page 14 of 17

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

12.5	Results of PBT and vPvB assessment					
	Based on available data, the product does not contain any PBT or vPvB substances.					
12.6.	Endocrine disrupting properties					
	Based on available data, does not contain endocrine disruptors.					
12.7.	Other adverse effects					
	Do not let the product or its residues reach sewer system, waterways and soil.					
SECTIO	N 13. Disposal considerations					
13.1	Waste treatment methods					
13.1.1.	Product/Packaging disposal:					
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature					
	Protection.					
13.1.2.	Waste codes/waste designations according to Law:					
	Packaging that contains residual hazardous substances or is contaminated with hazardous substances					
13.1.3.	Waste treatment – relevant information:					
	No information available					
13.1.4.	Sewage disposal – relevant information:					
	Waste must not be disposed of into the sewage system.					
	Haste mast hot be disposed of mee the senage system.					
13.1.5.	Other disposal recommendations:					
13.1.5.	Do not dispose of the product's remains into the sewage system. Submit the remains to the collector					
	authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submi					
	the packaging to the collectors authorized by the ministry in charge. Unused product residues may be burnt.					
13.1.6.						
13.1.0.	Relevant Community provisions:					
	Disposal must be made according to official regulations.					
SECTIO						
	Transporting/shipment by road (ADR)					
UN num	nber: 1170					
UN prop	per shipping name: Ethanol solution					



Page 15 of 17

Trading name:		TB DECOLORIZER			
Product code:	TBD-OT-X**	Revision date:	21 Dec 2022	Version: 5	
			2		
Transport hazard cl	ass(es):	3			
Packing group:		11			
Environmentally ha	zardous:	-			
Special precautions	for user:	-			
Transporti	ng/shipment by rail (RI	D)			
UN number:		1170			
UN proper shipping	g name:	Ethanol solution			
Transport hazard cl	ass(es):	3			
Packing group:		11			
Environmentally ha	zardous:	-			
Special precautions	for user:	-			
Inland wat	erway transport (ADN)				
UN number:		1170			
UN proper shipping	g name:	Ethanol solution			
Transport hazard cl	ass(es):	3			
Packing group:		11			
Environmentally ha	zardous:	-			
Special precautions	for user:	-			
Transporti	ng/shipment by sea (IN	/IDG)			
UN number:		1170			
UN proper shipping	g name:	Ethanol solution			
Transport hazard cl	ass(es):	3			
Packing group:		ll			
Environmentally ha	zardous:	-			
Special precautions	for user:	-			
Transport in bulk a of MARPOL 73/78 a	according to Annex II and the IBC code:	-			
Transporti	ng/shipment by air (IC	AO-TI/IATA-DGR)			
UN number:		1170			
UN proper shipping	g name:	Ethanol solution			
Transport hazard cl	ass(es):	3			
Packing group:		11			
Environmentally ha	zardous:	-			
Special precautions	for user:	-			
Further information	ı: -				



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 environmental 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 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 certair dangerous substances, mixtures and articles (Annex XVII); 				
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)					
	National legislation: Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act					
15.2	Chemical safety assessme	nt				
	None					

SECTIO	SECTION 16. Other information					
16.1	Indication of changes:	-				



Page 17 of 17

Trading name:			TB DEC	OLORIZER				
Produ	ct code:	TBD-OT-X**	Revision date:	Version:	5			
16.2			Revision date:21 Dec 2022Version:9ADR: Accord relatif au transport international des marchandises dangereuses p route (European Agreement Concerning the International Carriage of Dangerou Goods by Road)IMDG: International Maritime Code for Dangerous GoodsIATA: International Maritime Code for Dangerous GoodsIATA: International Air Transport AssociationGHS: Globally Harmonised System of Classification and Labelling of ChemicalsEINECS: European Inventory of Existing Commercial Chemical SubstancesCAS: Chemical Abstracts Service (division of the American Chemical Society)DNEL: Derived No-Effect Level (UK REACH)LC50: Lethal concentration, 50 percentLD50: Lethal dose, 50 percentPBT: Persistent, Bioaccumulative and ToxicvPvB: very Persistent and very Bioaccumulative					
16.3.	Key literat source of	ure references and data:	-					
16.4.	Classificat 1272/2008		used to derive the classificat	ion for mixture accordin	ng to Regulation (EC)		
Classifi -	cation		Classification procedure					
16.5.	Relevant H	H statements (numb	er and full text)					
	H: 2 3	225 114 335	Highly flammable liquid and vapour. Causes severe skin burns and eye damage. May cause respiratory irritation.					
16.6.	Training a	dvice:						
16.7.	Further in	formation:	 ** "X" in the product code marks different volumes (different packagings the product) We are not responsible for consequences in case of failure to comply wit instructions for use or improper use of the product described in this material safety data sheet. 					

ANNEX: Exposure scenario resulting to chemical safety assessment
-



Page 1 of 17

Trading name:	N	METHYLENE BLUE LOEFFLER'S REAGENT				
Product code:	MBL-OT-X**	Revision date:	23 Dec 2022	Version:	9	

1.1	Product identifier						
	Trading name:	METHYLEN	E BLUE LC	DEFFLER'S REAGENT			
	Chemical name:	-					
	Catalogue number:	MBL-OT-X*	**				
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against			
	Uses:		For stair	ning in microbiology and histology.			
	Uses advised against:		Only the identified uses are advised. Unsuitable for human comsumption.				
	Reason why uses advis	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic medica device, registered at the Agency for Medicinal Products and Medica Devices and there is no reason to use it for other purposes.				
1.3	Details of the supplier of the safety data sheet						
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997 +385 1 2404039				
	Telefax.:						
	e-mail of competent p	e-mail of competent person:		msds@biognost.hr			
	National contact:	National contact:					
1.4	Emergency telephone	Emergency telephone number					
	National Protection and Rescue Dire		ectorate:	112			
	Medical information:			+385 1 2348 342			

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 catego	ory code:	Hazard statements*:			
	Flam. Liq. 3		H226			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification: METHYLENE BLUE LOEFFLER'S REAGENT					
	Identification number: -					
	Authorization number:	-				



Page 2 of 17

Trading name:	METHYLENE BLUE LOEFFLER'S REAGENT					
Product code:	MBL-OT-X**	Revision date:	23 Dec 2022	Version:	9	

	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					
	Results of PBT and vPvB assess PBT or vPvB substances.	The product has no other known specific hazards for human or environment. Results of PBT and vPvB assessment: Based on available data, the product does not contain any				

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				

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



Page 3 of 17

Trading name:	METHYLENE BLUE LOEFFLER'S REAGENT					
Product code:	MBL-OT-X**	Revision date:	23 Dec 2022	Version:	9	

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

SECTI	SECTION 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	ibstance or mixture				
	Hazardous combustion products:	Highly flammable liquid and vapour. In case of fire, smoke, and other combustion products (carbon monoxide, carbon dioxide) may be formed, the inhalation of such combustion products can have serious adverse effects on health. Vapours may form an explosive mix with air. Vapours may be ignited by open flames, sparks, electrical equipment, or static charge. Vapours may travel to great distances, ignite in contact with ignition sources and flash back to the primer source (container). Vapours of ethyl alcohol mix greatly with air and may form an explosive mixture. Air containing $3.3 - 19\%$ ethyl alcohol vapours may explode in contact with ignition sources. Diluting the mixture with large amounts of water results in the loss of its flammability (around 10 % concentration of ethyl alcohol).				
5.3	Advice for firefighters					
	Wear full protective clothing and self-contained breathing apparatus. Cool the fire affected containers with water spray. Use water spray to dissipate alcohol vapours.					
5.4	Additional information					
	-					



Page 4 of 17

Trading name:	METHYLENE BLUE LOEFFLER'S REAGENT					
Product code:	MBL-OT-X**	Revision date:	23 Dec 2022	Version:	9	

6.1	Personal precautions, protective equipment and emergency procedures					
6.1.1.	.1. For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Avoid contact with skin, eyes and clothing and inhaling gases, vapours and aerosols. Ensure adequate ventilation. Vapours may accumulate at floor level in low and confined spaces. Remove all heat, ignition and spark sources, turn off machines. Ignition spark arrestor must not be operated in the danger area. Use spark-proof tools. Be aware of the risk of slipping.					
6.2	Environmental precautions:					
	Dispose of the spillage and the resulting waste according to the applicable environmental regulations. not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify respective authorities in accordance with local law in the case of environmental pollution immediately					
6.3	Methods and material for con	tainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.				
6.3.2.	Cleaning up:	Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. During the collection, placement, disposal of the waste, wear appropriate individual protective equipment. Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution).				
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					
	See Section 7 for information on safe handling.					
	See Section 8 for information on personal protection equipment.					
	See Section 13 for disposal int					

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



Page 5 of 17

Trading	g name:	ame: METHYLENE BLUE LOEFFLER'S REAGENT						
Produc	ct code:	MBL-OT-X**	Revisio	n date:	23 Dec 2022	Version:	9	
	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.		pen No		
	Measure	s to prevent aerosol and	d dust generatio	on:	Ensure adequate v	entilation.		
	Measure	s to protect the environ	ment:		Prevent spilling int and waterways.	o the sewage system		
	Other me	easures:			Protect against ele	ctrostatic charges.		
7.1.2.	Advice on general occupational hygiene:							
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.							
7.2	Conditions for safe storage, including any incompatibilities							
	Technical measures and storage conditions:		away fro unopen	a well-ventilated place, om sources of heat an ed and hermetically xidizing agents, food ption.	d ignition, in its origir sealed packaging, av	nal, way		
	Packagin	g materials:		Manufa	nufacturer's original packaging.			
	Requiren	nents for storage rooms	and vessels:	Keep av tightly o	vay from food and drin closed.	k. Keep the containers	;	
	Advices f	or storage equipment:		The storage must be made of hard material; floors mube resistant to chemicals. There must be no drain the directly leads into sewage system. Secure proposentilation.			hat	
	Further information on storage conditions: and do chemic		and do	place the unused mate not use empty cont als. Do not store with ind 10).	ainers for storing otl	her		
7.3	Specific e	end use(s)						
	Recomm	endations:		-				
	Industria	l sector specific solutior	าร:	-				

SECTION 8. Exposure controls/personal protection								
8.1 Control parameters								
Substance	CAS No		exposure limit t term values	Biological limit values				
		ppm	mg/m ³	-				
Ethanol	64-17-5	1000/-	1900/-	-				
Substance name: -								



Page 6 of 17

Trading	name:			N	IETHYLE	NE BL	UE LO	EFFLER'S REA	AGENT		
Product	code:	MBL-OT	-X**		Revisic	on dat	e:	23 Dec 2022		Version:	9
TC No.											
EC No:		-	CAS No	):	-						
DNEL						J 4					
		<b>A</b>				dustria				Chanadia	
Route of exposure		Acu effect			Acute t systemic			hronic ect local		Chronic effect systemic	
Oral		-	local	-	c systemic	-	CIII		-	chect systemic	
Inhalatio	n	1900 mg (ethanol)		-		-				/m ³ (ethanol)	
Dermal		-		-		-			343 mg	/kg (ethanol)	
Critical p	hysical para	meters: s	olubility,	flamma	ability, cor	rosivity	<i>/</i> :	-		. <u> </u>	
•	<u> </u>		<u> </u>			nsume		<u> </u>			
Route of exposure			ute t local		Acute t systemic		-	hronic ect local		Chronic effect systemic	
Oral		-		-		-			87 mg/	kg bw/day (eth	anol)
Inhalatio	n	950 m (ethan	0	-		-			114 mg	/m ³ (ethanol)	
Dermal		-		-		-			206 mg	/kg (ethanol)	
PNEC											
Environm	nental prote	ection targ	get			PNEC					
Fresh wa	ter					0.96 n	ng/l (etł	nanol)			
Freshwat	er sedimen	ts				3.6 m	g/kg (et	hanol)			
Marine w	vater					0.79 n	ng/l (etł	nanol)			
Marine s	ediments					2.9 m	g/kg (et	hanol)			
Food cha	ain					380-7	20 mg/l	kg (ethanol)			
Microorg	ganisms in s	ewage tre	eatment			580 m	g/l (eth	anol)			
Soil (agri	cultural)					0.63 n	ng/kg (e	ethanol)			
Air						no inf	ormatio	n available			
8.2	Exposu	re control	S								
8.2.1.	Approp	riate engi	ineering	controls	5						
		nce/mixtu : exposure				conce conce existir	ntratior ntratior Ig scier	n limit it is th n levels down	ne employ to a minir nological	vith no contro ver's duty to k num achievabl means, where o workers.	keep e by
	Structu exposu	ral measu re:	res to pr	event		In acc	ordance	e with Section 7	7.		



Page 7 of 17

Trading	name:	I	METHYLI	ENE BLUE I	OEFFLER'S REAGEN	T				
Product	code:	MBL-OT-X**	Revisi	on date:	23 Dec 2022	Version:	9			
	Orgar expos	nisational measures to prev sure:	/ent	Organization of work in order to reduce other worker's influence during work process.						
	Techr	ical measures to prevent e	exposure:	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-s	parkling ventilation syste	em.				
				Provide appropriate personal protective equipment, safety shower and eye-wash station.						
8.2.2.	Perso	nal protection equipment		:						
8.2.2.1.	Eye a	nd face protection:	Use appropriate, chemical-proof protective glasses/face shield (EN ISO 16321-1:2022, EN 166).				1 (EN			
8.2.2.2.	Skin p	Skin protection								
	Hand	protection:	propriate, cł	nemical-resistant protec	tive gloves (EN 374)	).				
	Other	skin protection:	Use ap	appropriate protective clothing.						
8.2.2.3.	Respi	ratory protection:	In case of normal usage and ventilation, it is not ne concentration of ethyl alcohol exceeds occupational expo in the air, use a self-contained breathing apparatus. contact and if the oxygen content of the air is greater than a protective gas mask with filter A (EN 14837/A1).			upational exposure ng apparatus. For is greater than 18 %	limits short			
8.2.2.4.	Thern	nal hazards:	No the	rmal hazard	s known.					
8.2.3.	Enviro	onmental exposure control	S							
		ance/mixture related ures to prevent exposure:	See Se	ction 6						
	Struct expos	ural measures to prevent sure:	nt Use modern equipment.							
		nisational measures to nt exposure:	Adapt workpl	•	ocess to the required wo	orking conditions of	fthe			
	Techr expos	nical measures to prevent sure:	See Section 6							

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



Page 8 of 17

Trading name:		METHYLENE BLUE L	OEFFLER'S REAGEN	т	
Product code:	MBL-OT-X**	Revision date:	23 Dec 2022	Version:	9

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

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

SECTION 11. Toxicological information									
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008									
Acute toxicity:									
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results				
Oral:	-	rat (ethanol)	LD ₅₀	-	7.060 mg/kg				
Dermal:	-	rabbit (ethanol)	LD ₅₀	-	>20.000 mg/l				



Page 9 of 17

Trading name:			ME	THYLENI	BLUE	LOEFFLER'S	REAGENT	ruge s	-	
Product code:	Μ	BL-OT-X**	1	Revision	date:	23 Dec 2	022	Versi	on:	9
Inhalation:		-	rat (ethanol	)	LC ₅₀		4 h		>8.000 r	ng/l
Specific	targe	t organ toxicit	y – single ex	posure (S	TOT SE):					
		Spec	ific effects			Target organ	ı	١	Vote	
Oral:	N	o information	available		No info	ormation avail	able -			
Dermal:	N	o information	available		No info	ormation avail	able -			
Inhalation:	Ν	o information	available		No info	ormation avail	able -			
8										
Aspirati	on haz	zard:		No infor	mation a	vailable.				
Irritation	n and	corrosion		_				1		
		Exposur	e time	Spec	ies	Evaluation	Method		Note	
Skin corrosion/irritation	on.	-		-		-	-	-		
Serious eye										
damage/irritation	n	-		-		-	-	-		
Sensitiz										
Skin sensitization			ormation av							
Respiratory sensi	itizatic	on: No inf	ormation av	ailable.						
Sumpto	mc rol	atad ta tha ph	weical cham	vical and t	ovicalaa	ical characteri	cticc			
Sympto	ins rei	ated to the ph Absorption	•	quantitie	-			kenness,	eupho	oria.
Oral exposure:		unconscious	ness and alco	ohol poise	oning. In	case of swallor ed exposure m	wing great qu	uantities,	nausea	,
Dermal exposure	2:	After prolon cracking of s		eated exp	oosure s	ymptoms ma	y include: d	efatting,	drynes	s and
Inhalation expos	ure:	Inhalation of membranes.	great quanti	ties may o	ause diz	ziness, eupho	ria and mild ir	rritation c	of the m	ucous
Eye exposure:		May cause ir	ritation and	redness.						
Repeate	ed dos	e toxicity (sub	acute, subcł	nronic, chi	onic)	1			1	
		Dose	Exposure time	Speci	es	Method	Evaluatio	on	Note	
Subacute oral		information lable	No information available	No n inforn availa	nation ble	No information available	No infor available		_	



Page 10 of 17

Trading name:		METHYLENE BLUE LOEFFLER'S REAGENT							
Product code:	MBL-OT-X**	Re	Revision date:		22	Version:	9		
Subacute dermal	No information available	No information available	No information available	No information available	No informa available	tion _			
Subacute inhalation	No information available	No information available	No information available	No information available	No informa available	tion _			
Subchronic oral	No information available	No information available	No information available	No information available	No informa available	tion _			
Subchronic dermal	No information available	No information available	No information available	No information available	No informa available	tion _			
Subchronic inhalation	No information available	No information	No information	No information	No informa available	tion _			

available

available

available

information

information

information

No

No

No

available

available

available

information

information

information

No information

No information

No information

available

available

available

_

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No

No

No

available

available

available

information

information

information

No

No

No

No information

No information

No information

available

available

available

Chronic oral

Chronic dermal

Chronic

inhalation

Specific targe	et organ toxicity – repeated exposure	e (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	-
Chronic inhalation	No information available	No information available	-



Page 11 of 17

Trading	g name:		METHYL	ENE BLUE I	LOEFFLER'S REAGEN	IT				
Produc	ct code:	MBL-OT-X**	Revisi	on date:	23 Dec 2022	Version:	9			
	Mutageni	city <i>in vitro</i> :	Bas	sed on availa	ble data, the classificati	ion criteria are not n	net.			
	Genotoxi	city:	Bas	Based on available data, the classification criteria are not met.						
	Mutageni	Mutagenicity in vivo:		sed on availa	ble data, the classificati	ion criteria are not n	net.			
	Germ cell mutagenicity:		Bas	Based on available data, the classification criteria are not met.						
	Reproductive toxicity:		Bas	Based on available data, the classification criteria are not met.						
	Summary propertie		the CMR	Based on a met.	available data, the clas	sification criteria ar	e not			
11.2	Informatio	on on other hazards:								
11.2.1.	Endocrine	e disrupting properties:								
		available data, does disruptors.	not contain							
11.2.2.	Other info	ormations:								
	-									

SECTION 12. Ecologi	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				
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	-				



Page 12 of 17

-	ame:		I	METH	IYLENE BLUE	LOEFF	LER'S R	EAGEN	T	
Product co	ode:	MBL-OT-X*	ł	Re	evision date:	23	Dec 20	22	Vers	ion:
Algae/aquatic plar		nts IC ₅₀ 72 hours		No information available		intormation		No inf availat	nformation _ able _	
Other orga	nisms	-	-	-		-		-		-
	oiotic deg	and degrada radation Degradation h	-		Method		Evaluatio		1	Note
Marine wat	er No	information a	available	No i avail	nformation able	No int availa	formatio ble	n	-	
Fresh wate	No	information a	available	No i avail	nformation able	No int availa	formatio ble	n	-	
۹ir	No	information a	available	No i avail	nformation able	No int availa	formatio ble	n	-	
Soil	No	information a	available	No i avail	nformation able	No inf availa	formatio ble	n	-	
		Time (days) No information available		Method No information available		No information available		No inform available	Note ation	
		ative potentia ter partition c		(log Kc	ow)					
Value	Co	ncentration	рН	°C	Method		Evalu	ation		Note
∟og Pow: ~ ).32	-		-	-	-	-			•	duct does accumulate
		ration factor (			Maska1		<b>r</b> 1			Netc
Value BCF: 0.66		Speci No in available	es formation	No ir avail	Method	No i avail	Evaluati nformati		_	Note



Page 13 of 17

Trading name:		METHYLENE BLUE L	OEFFLER'S REAGENT		
Product code:	MBL-OT-X**	Revision date:	23 Dec 2022	Version:	9

	Chronie			Exposure	~		<b>.</b>		-	:	
	Value	Value Dose		time	Spe	ecies	Meth	nod	Εv	aluation	Note
Chroni	c toxicity	on fish	LC ₅₀	information	No inforn availa	nation ble	No inform availab			rmation lable	-
	c toxicity cea ( <i>Daph</i>		EC ₅₀	information	No inforn availa	nation ble	No informa availab		_	rmation lable	-
12.4	Mobilit	y in soi	il								
	Known	or pree	dicted distributi	on in environme	ental c	ompart	ments:				
	No info	ormatio	n available								
	Surface	e tensio	n:								
	Val	Je	°C	Concentrat	ntration Method		a de la companya de l	Note			
	NoNoinformationinformationavailableavailable		No informati available	ion	n No information - available -		-				
	Adsorp		desorption								
Transp	ansport A/D coefficient Henry's constant		log Kow	Ev	Evaporation rate		Method		od	Note	
Soil-wa	ater	No availa	information able	No information available		o inform ailable	nation	No informa available		ation	-
Water-	air	No availa	information able	No information available		o inform ailable	nation	No ir availa		ation	-
Soil-air	r	No availa	information able	No information available		o inform ailable	nation	No ir availa		ation	-
12.5			and vPvB asses		+ 0 1				b c+ -		
	Based (	on avai	iable data, the p	product does no	t conta	ain any	PRIOLA	PVB SU	ostar	ices.	
12.6.	Endocrine disrupting properties										
	Based on available data, does not contain endocrine disruptors.										



Page 14 of 17

Trading name:		IT			
Product code:	MBL-OT-X**	Revision date:	23 Dec 2022	Version:	9

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



UN proper shipping n Transport hazard class Packing group: Environmentally hazar Special precautions for Inland waterv UN number: UN proper shipping n Transport hazard class Packing group: Environmentally hazar Special precautions for Transport nazorting, UN number: UN proper shipping n Transport hazard class Packing group: Environmentally hazar	s(es): dous:	Revision date: Ethanol solution 3 III - -	23 Dec 2022	Version:	9
Transport hazard class Packing group: Environmentally hazar Special precautions fo Inland waterv UN number: UN proper shipping no Transport hazard class Packing group: Environmentally hazar Special precautions fo Transporting, UN number: UN proper shipping no Transport hazard class Packing group: Environmentally hazard	s(es): dous: r user:	3     - -			
Transport hazard class Packing group: Environmentally hazar Special precautions fo Inland waterv UN number: UN proper shipping no Transport hazard class Packing group: Environmentally hazar Special precautions fo Transporting, UN number: UN proper shipping no Transport hazard class Packing group: Environmentally hazard	s(es): dous: r user:	3     - -			
Packing group: Environmentally hazar Special precautions for Inland waterw UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar Special precautions for Transporting, UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar	dous: r user:	 - -			
Environmentally hazar Special precautions fo Inland waterv UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar Special precautions fo Transporting, UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar	r user:	-			
Special precautions for Inland waterv UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar Special precautions fo Transporting UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar	r user:				
UN number: UN proper shipping n Transport hazard class Packing group: Environmentally hazar Special precautions fo Transporting, UN number: UN proper shipping n Transport hazard class Packing group: Environmentally hazar	vay transport (ADN)	1			
UN number: UN proper shipping n Transport hazard class Packing group: Environmentally hazar Special precautions fo Transporting, UN number: UN proper shipping n Transport hazard class Packing group: Environmentally hazar					
Transport hazard class Packing group: Environmentally hazar Special precautions fo Transporting, UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar		1170			
Packing group: Environmentally hazar Special precautions fo Transporting, UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar	ame:	Ethanol solution			
Environmentally hazar Special precautions fo Transporting, UN number: UN proper shipping no Transport hazard class Packing group: Environmentally hazar	s(es):	3			
Special precautions fo Transporting, UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar		III			
Transporting, UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar	dous:	-			
UN number: UN proper shipping na Transport hazard class Packing group: Environmentally hazar	r user:	-			
UN proper shipping no Transport hazard class Packing group: Environmentally hazar	/shipment by sea (IN	MDG)			
Transport hazard class Packing group: Environmentally hazar		1170			
Packing group: Environmentally hazar	ame:	Ethanol solution			
Environmentally hazar	s(es):	3			
		III			
<u> </u>	dous:	-			
Special precautions fo	r user:	-			
Transport in bulk accord of MARPOL 73/78 and		-			
Transporting,	/shipment by air (IC	AO-TI/IATA-DGR)			
UN number:		1170			
UN proper shipping na	ame:	Ethanol solution			
Transport hazard class	s(es):	3			
Packing group:		III			
Environmentally hazar	dous:	-			
Special precautions fo	r user:	-			
Further information:	•	rovision 144 – An aqueou subject to classification.	is solution containing 2	4% or less alcohol l	by

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

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



Page 16 of 17

9

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

	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;</li> <li>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 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;</li> <li>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;</li> <li>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).</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>
	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	

SECTIC	ON 16. Other information	
16.1	Indication of changes:	-



Page 17 of 17

Turnel			B 4					
Tradin	g name:		IVI		LOEFFLER'S REAGEN	<b> </b>		
Produc	ct code:	MBL-OT-X**		Revision date:	23 Dec 2022	Version:	9	
16.2	Abbreviati	ons and acronyms:	route Good IMDO IATA: GHS: EINEO CAS:	<ul> <li>(European Agreement</li> <li>s by Road)</li> <li>International Maritim</li> <li>International Air Tran</li> <li>Globally Harmonised</li> <li>CS: European Inventory</li> <li>Chemical Abstracts</li> <li>Derived No-Effect List</li> <li>Lethal concentration</li> <li>Persistent, Bioaccun</li> </ul>	System of Classification a of Existing Commercial C Service (division of the Am evel (UK REACH) n, 50 percent sent	onal Carriage of Dang oods and Labelling of Chem hemical Substances	gerous	
16.3.	Key literat source of	ure references and data:	Man	Manufacturer's MSDS file.				
16.4.	Classificat 1272/2008	•	used to	derive the classificati	on for mixture accordin	ng to Regulation (EC	2)	
Classifi	cation		Classific	cation procedure				
-			-					
16.5.	Relevant H	l statements (numb	er and f	ull text)				
	H: 2	25	Highly	flammable liquid and	l vapour.			
	2	26	Flamma	able liquid and vapou	ır			
16.6.	Training a	dvice:	-					
16.7.	Further inf	formation:	the pro We are instruct	duct) not responsible for a	narks different volumes consequences in case o oper use of the product	f failure to comply v	-	

#### ANNEX: Exposure scenario resulting to chemical safety assessment

_