

TB-STAIN FLUORESCENT KIT

The kit contains:

TB Auramine-Rhodamine reagent

TB Decolorizer Fluorescent

TB Permanganate reagent



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Trade name:	TB AURAMINE-RHODAMINE REAGENT						
Product code:	TBA-OT-X**	Date of compilation:	29 December 2022	Version:	5		

1.1.	Product identifier				
	Trade name:	TB AURAMINE-RHODAMINE REAGENT			
	Chemical name:	-			
	Catalogue number:	TBA-OT-X**			
1.2.	Relevant identified u	ises of the sul	bstance or m	nixture ar	nd uses advised against
	Uses:			For use	in TB-Stain Fluiresccent kit.
	Uses advised against:		Only th	e identified uses are advised.	
Reason why uses advised against: diagnostic medical d Medicinal Products a			oduct is intended for use only as an <i>in vitro</i> stic medical device, registered at the Agency for nal Products and Medical Devices and there is no to use it for other purposes.		
1.3.	Details of the suppli	er of the safe	ty data shee	t	
	Supplier:		BioGno	st Ltd.	
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax:		+385 1	5 1 2404039	
	E-mail of competent	person:	msds@	ds@biognost.hr	
	National contact: -				
1.4.	Emergency telephone numbers				
	National Protection	and Rescue D	irectorate:		112
	Medical information	•			+385 1 2348 342
	Other information:				

SECTIO	TION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC)	No. 1272/2008 (CLP)			
	Hazard class and category code:	Hazard statement*:			
	Flam. Liq. 2	H225			
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-statements:	see Section 16.			
2.2.	Label elements				
	Product identification: TB AURAM	INE-RHODAMINE REAGENT			
	Identification number: -				



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	Authorisation number:	-
	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statement:	H225 Highly flammable liquid and vapor.
	Precautionary statement:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Supplemental hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Prope	rties:
	No known endocrine disrupti	ng properties
	Results of PBT and vPvB ass PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

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	75 – 95 %	ethanol	Flam. Liq. 2; H225			

SECT	SECTION 4. First aid measures				
4.1. Description of first aid measures					
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove all contaminated clothes/footwear. Thoroughly wash with water for at least 15 minutes.			



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	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.		
	Following swallowing:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.		
	Self-protection of the first aider	-		
4.2.	Most important symptoms and effects, both acute and delayed			
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.		
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.		
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.		
_	Following swallowing:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.		
4.3.	Indication of any immediate med	ical attention and special treatment needed		
	No information available			

SECT	TION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO2 Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous byproducts of fire:	Incomplete combustion of the product.			
5.3.	Advice for firefighters				
	Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing).				
5.4.	Additional information				
	Cool endangered receptacles v	with water spray. Collect contaminated fire fighting water separately. Do not with extinguishing media.			

SECTIO	SECTION 6. Accidental release measures			
6.1.	Personal precautions, protect	tive equipment and emergency procedures		
6.1.1.	For non-emergency personn	For non-emergency personnel		
	Protective equipment:	Use personal protective equipment (see Section 8).		



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	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.	
	Emergency procedures:	Mark the area using proper signs.	
6.1.2.	For emergency responders:		
	Self-contained open-circuit con heat dissipation (fireproof cloth	npressed air breathing apparatus, a set for protecting the body from ing).	
6.2.	Environmental precautions:		
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.		
6.3.	Methods and materials 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:	Sawdust, sand, mineral adsorbents	
6.3.3.	Other information: Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). 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 o	n personal protection equipment.	
	See Section 13 for disposal info	rmation.	

SECTIO	ON 7. Handling and storage		
7.1.	Precautions for safe handling		
7.1.1.	Protection measures		
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.	
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.	
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.	
	Other measures:	Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:		
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.		
7.2.	Conditions for safe storage, including any inc	compatibilities	



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	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.
	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposure	SECTION 8. Exposure controls/personal protection					
8.1. Control para	meters					
Substance	CAS No			Occupational exposure limit values/short term values		Biological limit values
			р	pm	mg/m³	
Ethanol	64-17	-5	10	00/-	1900/-	No information available
Substance:	Substance: -					
EC No:	EC No:		CAS No: -			
DNEL	DNEL					
		Ir	ndustri	ial		
Route of exposure:	Acute effect local	Acute effect syste	Chronic effect local			Chronic effect systemic
Oral	-	-	-			-
Inhalation	1900 mg/m ³ (ethanol)	-	-			380 mg/m³ (ethanol)
Dermal	-	-		-		343 mg/kg (ethanol)
Critical physical parameters: solubility, flammability, corrosivity:						
		Co	onsum	er		
Route of exposure:	Acute effect local	Acute effect syste	emic		Chronic ffect local	Chronic effect systemic



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Product	code:	TBA-OT-X**		Date of c	ompilation:	29 Dece	ember 2022	Version: 5
Oral		-	-		-		87 mg/kg by	v/day (ethanol)
Inhalatio	n	950 mg/m ³ (ethanol)	-		-		114 mg/m³ (ethanol)
Dermal		-	-		-		206 mg/kg (ethanol)
PNEC								
Environn	nental prote	ection target		PNEC				
Fresh wa	iter			0.96 mg/l (ethanol)			
Freshwat	ter sedimen	ts		3.6 mg/kg	(ethanol)			
Marine v	vater			0.79 mg/l (ethanol)			
Marine s	ediments			2.9 mg/kg	(ethanol)			
Food cha	ain			380-720 m	g/kg kg (ethar	nol)		
Microorg	ganisms in s	ewage treatment		580 mg/l (e	ethanol)			
Soil (agri	icultural)			0.63 mg/kg (ethanol)				
Air				no information available				
8.2.	Exposure	controls						
8.2.1.	Appropria	ate engineering con	ntrols					
	measures	e/mixture related to prevent exposulentified uses:	re	Do not eat, drink or smoke in the workspace. Use personal protective equipment.				
	Structural exposure:	measures to preve	nt	No information available				
	Organisat prevent e	ional measures to xposure:		Organization of work in order to reduce other worker's influence during work process.			ker's influence	
	Technical exposure:	measures to preve	nt	See Section 7.2				
8.2.2.	Personal _I	orotection equipme	ent					
8.2.2.1.	Eye and fa	face protection: of co		ety glasses that stick to face (EN 166) or visor in case of lower levels concentration in air; protective gas mask that covers the entire face case of higher levels of concentration in air.				
8.2.2.2.	Skin prote	ection	1					
			tective gloves must be according to the EU Directive 2016/425/EEC I standard EN 374.			2016/425/EEC		
	Hand pro	tection:		Glove material: nitrile rubber				
				Glove thickness: ≥0.50 mm				
				Break thr	Break through time: >480 min			



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	Other skin protection:	footwear, such as r entire foot. In case impermeable mate	ork use cotton clothing (EN 340) and suitable rubber boots (EN 20345) or shoes that cover the of spilling hazard, use clothing made of erial suitable for protection from liquid chemicals and footwear made from the same material.	
8.2.2.3.	Respiratory protection:	a filter for organic	mask (EN 136) or half mask (EN 140) equipped with vapors, type "A" (boiling point >65°C) acording to nen concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No information ava	ailable	
8.2.3.	Environmental exposure co	introls		
	Substance/mixture related exposure:	measures to prevent	See Section 6	
	Structural measures to prevent exposure:		Use modern equipment.	
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.	
	Technical measures to prev	ent exposure:	See Section 6	

Information on basic physical	and chemical properties	
	Value	Method
Physical state:	liquid	no information available
Colour:	red	no information available
Odour/odour threshold:	ethanol like/no information available	no information available
Melting point / freezing point	no information available	no information available
Boiling point or initial boiling point and boiling range:	no information available	no information available
Flammability:	no information available	no information available
Lower and upper explosion limit:	no information available	no information available
Flash point:	13°C	no information available
Auto-ignition temperature:	no information available	no information available
Decomposition temperature:	no information available	no information available
pH:	no information available	no information available
Kinematic viscosity:	no information available	no information available
Solubility:	no information available	no information available
Partition coefficient noctanol/water (log value):	no information available	no information available



Inhalation:

No information available

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

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	Vapour pressure:	No information available	no information available
	Density and/or relative density:	no information available	no information available
	Relative vapour density:	no information available	no information available
	Particle characteristics:	no information available	no information available
9.2.	Other information		
	-		

SECTIO	SECTION 10.: Stability and reactivity		
10.1.	Reactivity:	The product is stable under normal working and storage conditions.	
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.	
10.3.	Possibility of hazardous reactions:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.	
10.4.	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.	
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.	
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.	

11.1. Info	rmation on hazard clas	sses as defined i	n Regulation (EC) No 1272/2008		
Acut	e toxicity:					
Route of exposure:	Method	Species	Effective Do LD ₅₀ /LC ₅₀ c ATE _{mixture}	Exposure		Results
Oral:	No information available	rat	LD ₅₀	-	7.060	0 mg/kg (ethanol)
Dermal:	No information available	rabbit	LD ₅₀	-	>20.	000 mg/kg (ethanol)
Inhalation:	No information available	rat	LC ₅₀	4 h (ethanol)	20.00	00 mg/l (ethanol)
Specific tar	get organ toxicity - si	ngle exposure (S	TOT-SE):			
	S	pecific effects		Target organ		Note
Oral:	No information	n available	N	o information avai	able	-
Dermal:	No information	availahla	N	o information avai	ahle	_

No information available



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Aspiration h	nazar	d:		No info	rmation a	available		
Irritation an	nd cor	rosion						
		Exposure t	ime S	Species	E	valuation	Metho	d Note
Skin corrosion/irritation No information available			No	information	No info	nformation No information available		n -
Serious eye damage/irritatio	on	No information available	n No availab	information le	No info	ormation le	No informatio available	n -
Sensitization								
Skin sensitizatio	n.	No informa	ntion available					
Respiratory sensitization:			ation available					
Symptoms re	lated	to the physic	al, chemical a	nd toxicologica	al charac	teristics		
Oral exposure:		sensation; high	gher levels of	concentration tion causes co	may cau	se nausea, a	in the mouth, bubdominal pain arthing. Higher leve	nd vomiting.
Dermal exposur	e:	Slight irritation	on. After short				ot likely. Long-ter	m exposure
Inhalation exposure:			•	ts of vapors in the and nause		ately ventilat	ed perimeter ma	y cause
Eye exposure:		Direct eye co	ontact may cau	use slight to m	oderate	irritation, lac	rimation and bur	ning
-								
Repeated do:	se to	kicity (subacut	e, subchronic,	chronic)				
		Dose	Exposure time	Species	М	ethod	Evaluation	Note
Subacute oral	Subacute oral information i		lo nformation vailable	availahle		o formation railable	No information available	-
Subacute dermal		ormation ir	lo nformation vailable	No informa available	in	o formation railable	No information available	-
Subacute inhalation		ormation ir	lo nformation vailable	No informa available	in	o formation railable	No information available	-



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Product code:	TBA-OT->	(** Date of con		ation:	29 Dece	ember 2022	Version:	ļ
Subchronic oral	No information available	No information available	No information available	No infor avail	mation able	No information available	-	
Subchronic dermal	No information available	No information available	No information available	No infor avail	mation able	No information available	-	
Subchronic inhalation	No information available	No information available	No information available	No infor avail	mation able	No information available	-	
Chronic oral information		No information available	No information available	No information available		No information available	-	
Chronic dermal	intormation intormation		No information available	No No information information available available		information	-	
Chronic inhalation	No information available	No information available	No information available	No infor avail	mation able	No information available	-	
			(6707.05)					
Specific targe	t organ toxicity	repeated expo			Tarastar		Note	
Subacute oral		No information	c effects	No info	Target or rmation a			
Subacute dermal No information				rmation a				
Subacute inhalation No information			No information available			-		
		No information	available			vailable -	-	
Subchronic dern	nal	No information	available	No info	rmation a	vailable -	-	
Subchronic inha	lation	No information			rmation a	vailable -	•	

	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	-

CMR effects (carcinogenicity, mutagenic	city, reproductive toxicity)
Carcinogenicity:	No information available
Mutagenicity in-vitro:	No information available
Genotoxicity:	No information available
Mutagenicity in-vivo:	No information available
Germ cell mutagenicity :	No information available
Reproductive toxicity:	No information available



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Sumi	mary of evaluation of the CMR properties:	No information available
11.2.	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	No known endocrine disrupting properties the affect human health.	hat
11.2.2.	Other informations:	
	-	

12.1. Toxici	ty					
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Fish	No information available	8.140 mg/l (ethanol)	-
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants:	IC ₅₀	72 hours	algae	No information available	5.000 mg/l (ethanol)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	_	_	-



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Product co	de: TBA-OT-X	<u> </u>		Dat	te of compila	tion.	29 Dece	ember 20	version:
	Degradation	half-lives			Method		Evaluatio	n	Note
Marine water	No information a	vailable		No ir	nformation able	No information available			
Fresh water	No information a	vailable					No information available		
Air	No information available			No ir availa	nformation able		informatio lable	n -	
Soil	No information a	vailable		No ir availa	nformation able		informatio lable	n -	
Biodegrad	dation								
% Degradat	ion Time (d	ays)			Method		Evaluat	tion	Note
	-		-			1	-	-	
	Bioaccumulative po			41 14					
	Octanol-water part	ition coeff	ıcient	(log K	low)			F. 1 .	
Value	Concentratio	n	рН	H °C Method			I	Evaluat Note	
-	_		-	-	-			-	-
Biocor	ncentration Factor (BCF)							
Value	Spe	cies			Method		Evalua	tion	Note
No information available	No informatio	n available	2	No information available			informatio	-	
Chronic e	cotoxicity								
Value	Dose	Expos	ure ti	me	Species	N	/lethod	Evaluat	tion Note
Chronic toxion fish	icity LC ₅₀ No informa available		ation	No information available		rmation lable	No informat available		
Chronic toxion crustacea (Daphnia)	- :	No in	nform e	ation	No information available	No		No informat available	1



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12.4.	Mobility in soil							
	Known or predicte	ed distributi	on in environm	nental compart	tments:			
	No information av	ailable/						
	Surface tension:							
	Value		°C	Concentrati on	l Method			Note
	No information available	No available	information	No information available	No informat available		_	
Transpoi	ption / desorption A/D coeff Henry's co	ficient	log Kow	Evaporat	tion rate		Method	Note
Soil-Wat	er No ir available	formation	No information	on No inform available	nation	No i avail	nformation able	-
Water-A	ir No ir available	formation	No information	on No inform available	nation	No i avail	nformation able	-
Soil-Air	No ir available	formation	No information available No information available		nation	No information - available		-
12.5.	Results of PBT and	d vPvB asses	ssment					
	Based on available	e data, the p	product does n	ot contain any	PBT or vP	vB sub	ostances.	
12.6.	Endocrine disrupt	ing propert	ies					
	Based on available	e data, does	not contain e	ndocrine disru	ptors.			
12.7.	Other adverse effe	ects						
	No adverse effect	s are expect	ed.					
SECTION	N 13. Disposal con	siderations	5					
13.1.	Waste treatment	methods						
13.1.1.	Product/Packagi	ng disposal						
	Submit for dispo	sal to the le	gal person aut	horized by the	Ministry o	of Envi	ironmental an	d Nature



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13.1.2.	Wasta cadas (wasta dasia	nations according to Low		
15.1.2.		nations according to Low: esidual hazardous substances or is contaminated with hazardous substances		
	Fackaging that contains i	estada Hazardous substances of is contaminated with hazardous substances		
13.1.3.	Waste treatment – releva	nt information:		
	No information available			
	:			
13.1.4.	Sewage disposal – relevar	nt information:		
	Waste must not be dispos	sed of into the sewage system.		
13.1.5.	Other disposal recommer			
	authorized by the ministry	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.		
13.1.6.	Relevant Community prov	visions:		
	Disposal must be made a	ccording to official regulations.		
SECTIO	N 14. Transport information	on		
Trai	nsporting/shipment by road	(ADR)		
UN num	nber	1170		
UN prop	per shipping name:	Ethanol solution		
Transpo	ort hazard class(es):	3		
Packing	group:	II .		
Environr	mental hazards:	No information available		
Special _I	precautions for user:	-		
Trai	nsporting/shipment by rail (RID)		
UN num	nber:	1170		
UN prop	per shipping name:	Ethanol solution		
Transpo	ort hazard class(es):	3		
Packing	group:	II		
Environr	mental hazards:	No information available		
Special _I	precautions for user:	-		
Trai	nsporting/shipment by inlan	nd waterways (ADN)		
UN num	nber:	1170		
UN prop	oer shipping name:	Ethanol solution		
Transpo	ort hazard class(es):	3		



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Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by sea (IMDG	5)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-
Transporting/shipment by air (ICAO-	TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Further - information:	

SECTIO	SECTION 15. Regulatory information			
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorisation and/or restrictions on use			
	Authorisations: -			
	Restrictions: -			



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	Other EU regulations:	18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVIII);
	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 assess	ment
	None	

SECTIO	ON 16. Other information	
16.1.	Indication of changes:	-
16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative



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16.3.	Key literature reference data:	s and source of -		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classific	cation	Classification procedure		
_		-		
16.5.	Relevant H statements (number and full text)			
	H: 225	Highly flammable liquid and vapor.		
16.6.	Training advice:	-		
		** "X" in the product code marks different volumes (different packaging of the product)		
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to Chemical safety assessment
-



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Trading name:		TB DECOLORIZER	FLUORESCENT		
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SECTI	ON 1: Identification of	the substance	/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	TB DECOLO	RIZER FLU	JORESCENT	
	Chemical name:	-			
	Catalogue number:	TBF-OT-X**			
1.2	Relevant identified use	es of the subst	ance or n	nixture and uses advised against	
	Uses:		For use	in TB-Stain Fluorescent and TB-Stain Auramine O kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advi	sed against:	device, r	duct is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes.	
1.3	Details of the supplier	of the safety of	data shee	t	
	Supplier:		BioGnos	BioGnost Ltd.	
	Address:		Medjugo	1edjugorska 59, Zagreb	
	Telephone number:		+385 1 2	385 1 2409997	
	Telefax.:		+385 1 2	+385 1 2404039	
	e-mail of competent p	erson:	msds@b	<u> Dbiognost.hr</u>	
	National contact:		-		
1.4	4 Emergency telephone number				
	National Protection and Rescue Directorate:		ctorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substan	ce or mixture				
2.1.1	Classification according to F	Regulation (EC) No	1272/2008 (CLP)			
	Hazard class and cat	egory code:	Hazard statements*:			
	Flam. Liq. 2		H225			
	Eye Irr. 2		H319			
	STOT SE 3		H336			
2.1.2.	Additional information					
	-					
*For fu	or full text of Hazard- and EU Hazard-statements: see SECTION 16					
2.2	Label elements					
	Product identification:	TB DECOLOR	IZER FLUORESCENT			
	Identification number: -					



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	Authorization number:	-
	Hazard pictograms:	GHS02 GHS07
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness
	Precautionary statements:	P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	erties:
	No known endocrine disrupti	
	Results of PBT and vPvB as: PBT or a vPvB.	sessment : According to the results of its assessment, this substance is not a

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)			
67-63-0/ 200-661-7/ 603-117-00-0	01-2119457558-25- XXXX	≥60%	propan-2-ol	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336			
7647-01-0/ 231-595-7/ 017-002-00-2	-	2 -3 %	hydrochloric acid, 37%	Skin Corr. 1B; H314 STOT SE 3; H335			

SECTION 4. First aid measures



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4.1	Description of first aid measures			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.		
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.		
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.		
	Self-protection of the first aider:	-		
4.2	Most important symptoms and effects, both acute and delayed			
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.		
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.		
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.		
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.		
4.3	Indication of any immediate medi	cal attention and special treatment needed		

SECTIO	SECTION 5. Firefighting measures						
5.1	Extinguishing media						
	Suitable outinguishing modia:	Small fire - water spray, dry powder, CO ₂					
	Suitable extinguishing media:	Large fire - water spray or alcohol resistant foam					
	Unsuitable extinguishing media:	Water with full jet					
5.2	Special hazards arising from the su	ubstance or mixture					
	Hazardous combustion products:	Formation of toxic gases is possible during heating or in case of fire.					
5.3	Advice for firefighters						
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.						



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5.4	Additional information
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not
	contaminate the environment with extinguishing media.

SECTIO	ON 6. Accidental release meas	ures			
6.1	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in a (see Section 8).	case of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and 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:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).			
6.4	Reference to other sections				
	See Section 7 for information	on safe handling.			
		on personal protection equipment.			
	See Section 13 for disposal inf	See Section 13 for disposal information.			

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



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	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a ated storage rooms at temperatures ranging to 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	facturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away	y from food and drink. Keep the containers sed.		
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain tly leads into sewage system. Secure proper n.		
	Further information on storage conditions:	and do no	ace the unused material in the storage room of use empty containers for storing other. Do not store with incompatible materials on 10).		
7.3	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	_			

SECTIO	SECTION 8. Exposure controls/personal protection						
8.1	Control para	ameters					
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values	
				ppm	mg/m³	-	
Propan-	-2-ol		67-63-0		400/500	999/1250	-
Hydrog	Hydrogen chloride		7647-01-0		5/10	8/15	-
Substar	nce name:	-					
EC No:		-	CAS No:	-			



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Troduct	coue.	1DI -O1-X	IXEVISI	on date.		21 Dec 2022	version.
DNEL							
DINEL			In	dustrial			
Davita of		Acute	Acute	Chronic		ronic	Chronic
Route of exposure		effect local				ct local	
	•	effect local	effect systemi		ene	Ct local	effect systemic
Oral		-	-	-			26 mg/kg (propan-2-ol)
Inhalation	1	-	-	-			500 mg/m³ (propan-2-ol)
Dermal		-	-	-			888 mg/kg (propan-2-ol)
Critical ph	ysical para	ameters: solubility,	flammability, co	rrosivity:		_	
			Co	nsumer			
Route of		Acute	Acute		Ch	nronic	Chronic
exposure	:	effect local	effect systemi	ic	effe	ct local	effect systemic
Oral		-	-	-			26 mg/kg (propan-2-ol)
Inhalation	l	-	-	-			89 mg/m³ (propan-2-ol)
Dermal		-	-	-			319 mg/kg (propan-2-ol)
PNEC							
Environme	ental prote	ection target		PNEC			
Fresh wate	er			140.9 mg/l (propan-2-ol)			
Freshwate	er sedimen	its		552 mg/kg (propan-2-ol)			
Marine wa	ater			140.9 mg/l (propan-2-ol)			
Marine se	diments			552 mg/kg (propan-2-ol)			
Food chai	n			no information available			
Microorga	anisms in s	sewage treatment		no inforn	natior	n available	
Soil (agric	ultural)			28 mg/kg	g (pro	pan-2-ol)	
Air				no inforn	natior	n available	
8.2	Evnocu	re controls					
8.2.1.	-	priate engineering	controls				
J.L. 1.	Approp	mate engineering		lice the r	rodu	ct in well ventil	ated rooms. Use personal
		nce/mixture related t exposure during	Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structu exposu	ral measures to pre	In accordance with Section 7.				
	Organi: exposu	sational measures re:	to prevent	Organization of work in order to reduce other worker's influence during work process.			
	Technic	cal measures to pre	event exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure			

stations for rinsing eyes and showering.



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8.2.2.	Personal protection equipment	
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.
8.2.2.2.	Skin protection	
	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

SECTI	SECTION 9. Physical and chemical properties				
9.1	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	No information available		
	Colour:	colourless	No information available		
	Odour/odour threshold:	biting/no information available	No information available		
	Melting point / freezing point:	No information available	No information available		
	Boiling point or initial boiling point and boiling range:	No information available	No information available		



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	Flammability:	No information available	No information available		
	Initial boiling point and boiling range:	No information available	No information available		
	Lower and upper explosion limit:	No information available	No information available		
	Flash point:	18 °C	No information available		
	Auto-ignition temperature:	No information available	No information available		
	Decomposition temperature:	No information available	No information available		
	рН:	No information available	No information available		
	Kinematic viscosity:	No information available	No information available		
	Solubility:	No information available	No information available		
	Partition coefficient n- octanol/water (log value):	No information available	No information available		
	Vapour pressure:	No information available	No information available		
	Density and/or relative density:	No information available	No information available		
	Relative vapour density:	No information available	No information available		
	Particle characteristics:	No information available	No information available		
9.2	Other information				
	-				

SECTIO	CTION 10. Stability and reactivity						
10.1	Reactivity:	See subsections 10.3 through 10.5.					
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).					
10.3	Possibility of hazardous reactions:	No dangerous reactions known.					
10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.					
10.5	Incompatible materials:	No further relevant information available.					
10.6	Hazardous decomposition products:	No dangerous decompostion products known.					

SECTION 11. Toxi	cological in	formation			
11.1 Information	on on hazard	l classes as d	efined in Regula	tion (EC) No 1272/20	008
Acute toxi	icity:				
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results
Oral:	-	rat	LD ₅₀	-	5.840 mg/kg (propan-2-ol)
Dermal:	-	rabbit	-	-	12.800 mg/kg (propan-2-ol)



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Inhalation:		- r	rat	LC ₅₀	4 h		mg/l (propan-2-ol) J/l (hydrochloric acid	d)	
Specific	c target	organ toxicit	y – single exp	oosure (STO	T SE):				
: •		Spec	ific effects	-	Target org	an	Note		
Oral:	No	o information	available	N	o information ava	-			
Dermal:	N	o information	available	N	o information ava	ilable	_		
Inhalation:	No	o information	available	N	o information ava	ilable	may cause drowsin or dizziness	ıess	
Aspirat	ion haz	ard:		No informa	tion available.				
Irritatio	n and o	corrosion							
	Exposure time			Species	Evaluation	Method	Note		
Skin corrosion/irritation:		-		-	-	-	-		
Serious eye damage/irritatio	n	-		-	-	-	-		
Sensitiz	zation								
Skin sensitizatio	n:	No inf	ormation ava	ilable.					
Respiratory sens	sitizatio	n: No inf	ormation ava	ilable.					
Sympto	oms rela	ated to the ph	nysical, chemi	ical and toxi	cological characte	eristics			
Oral exposure:		No informati	on available.						
Dermal exposur	e:	No informati	on available.						
Inhalation expos	sure:	No informati	on available.						
Eye exposure:		No informati	on available.						
Repeat	ed dose	e toxicity (sub	acute, subchi	ronic, chron	ic)	-			
		Dose	Exposure time	Species	Method	Evalua	tion Note		
Subacute oral	No avail	information able	No information available	No informat available		No inform availab			
Subacute dermal	No avail	information able	No information available	No informat available		No on inform availak			



Subacute

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No

information

No

information

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information

No

No

information

No information

inhalation	availa	ble	available	available	available	available	OH	-		
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available	on	-		
Subchronic dermal			No information available	No information available	No information available	No information available	on	-		
Subchronic inhalation			No information available	No information available	No information available	No information available	on	-		
Chronic oral No information available		No information available	No information available	No information available	No information available	on	-			
Chronic dermal No information available			No information available	No information available	No information available	No information available	on	-		
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	on	-		
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):					
,			Specific effec	cts	Target o	rgan		Note		
Subacute oral		No informa	tion available	No information available			-			
Subacute dermal		No informa	ation available		No information available		-			
Subacute inhalat	ion	No informa	ation available		No information available		-			
Subchronic oral		No informa	tion available		No information available		-			
Subchronic derm	nal	No informa	tion available		No information available		-			
Subchronic inhal	ation	No informa	tion available		No information available		-			
Chronic oral			tion available		No information available		-			
Chronic dermal			tion available		No information		-			
Chronic inhalatio	n	No informa	tion available		No information	n available	-			
CMR eff	fects (ca	arcinogenicity	y; mutagenicity	y; reproductive	toxicity)					
Carcino	genicity	/ :		Based on avail	able data, the cla	ssification c	riteria	are not met.		
Mutage	nicity <i>ii</i>	n vitro:		Based on available data, the classification criteria are not met.						
Genoto	xicity:			Based on available data, the classification criteria are not met.						
Mutage	nicity ii	n vivo:		Based on available data, the classification criteria are not met.						



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	Germ cell mutagenicity:	Based on available data, the classification criteria are not met.						
	Reproductive toxicity:	Based on available data, the classification criteria are not met.						
	Summary of evaluation of the CN properties:	AR Based on available data, the classification criteria are not met.						
11.2	Information on other hazards:							
11.2.1.	Endocrine disrupting properties:							
	The substance/mixture does not contacomponents considered to have endocridisrupting properties according to REAG Article 57(f) or Commission Delegat regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% higher.	ne CH ed on						
11.2.2.	Other informations:							
	-							

SECTION 12. Ecologic	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	100-1,000 mg/l (2- propanol)	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	>1,000 mg/l (2-propanol)	-
Algae/aquatic plants	IC ₅₀	4 days	No information available	No information available	>1,000 mg/l (2-propanol)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-



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Product	Product code:		BF-OT-X**		R	evision date:	2	1 Dec 20	22	٧	ersion:	5
Algae/ac	quatic p	olants	IC ₅₀ 72 hours		No information available		No infor avail	mation able	No information			
Other or	rganism	ıs	-	-		-	-		-		-	
12.2			nd degrada	bility								
	Abiotio		adation									
		De	egradation h	alf-lives		Method		Evaluatio			Note	
Marine v	water	No ii	nformation a	rmation available		information ilable	No ii avail	nformatioi able	n			
Fresh wa	ater	No ii	nformation a	rmation available		information ilable	No ii avail	nformatioi able	n -			
Air			nformation a	on available		information ilable	No informatio available		n -			
Soil	Soil No informatio		nformation a	available	No information available		No information available		n -			
		I							i			
	Biodeg	radati	on									
% Deg	Biodegradation % Degradation Time (days)		days)	Method			Evaluatio	n		Note		
No infor available			No ir available	formation		information ilable	No ii avail	nformatioi able		o info ailabl	rmation le	
1												
12.3	Bioacc	umula	tive potentia	al								
	Octano	ol-wate	er partition o	coefficient (log K	(ow)						
Value	2	Conce	entration	рН	°C	Method		Evalu	ation		Note	
-	-			-	-	-		-		-		
	Biocon	centra	ition factor (BCF)								
Va	alue		Speci		2	Method		Evaluati	on		Note	
No infor		N	<u> </u>	formation	No	information	No	informati				
available	9	a	vailable			ilable	available					
					1							



12.6.

Endocrine disrupting properties

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	Value	Dose	Exposure time	Spe	ecies	Method		Εv	aluation		Note
Chronic	toxicity on fish	LC ₅₀	No information available	information informati		No informa availabl		No information available		-	
	toxicity on ea (<i>Daphnia</i>)	EC ₅₀	No information available	No inforr availa	nation ble	No informa availabl			rmation lable	-	
12.4	Mobility in so	il									
	Known or predicted distribution in environmental compartments:										
	No information	on available									
	Surface tension	on:	1								
	Value	°C	Concentra	ation		Metho	d			Not	е
	No No information informavailable available		No informa available	ition	No information available				-		
	Adsorption / (desorption									
Transpo	ort	coefficient /'s constant	log Kow	Ev	Evaporation rate Method			bc	Note		
Soil-wa	ter No available	information	No informati available		o inform ailable	nation	No information available		ation	_	
Water-a	air No available	information	No informati available		o inform ailable	nation	No ir availa		ation	_	
Soil-air	No available	information	No informati available		o inform ailable	nation	No information available		ation	_	
	ii										



Trading name:

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	according	g to REACH Article 57	ot contain components con (f) or Commission Delegate vels of 0.1% or higher.			
12.7	Other ad	verse effects				
	No furthe	er relevant information	n available.			
SECTION	l 13 Disi	posal considerations				
13.1		treatment methods				
10.1.1		. (5.)				
13.1.1.		t/Packaging disposal:				
	Submit Protect		gal person authorized by th	ne Ministry of Environm	ental and Nature	
13.1.2.	Waste	codes/waste designat	ions according to Law:			
	Packaging that contains residual hazardous substances or is contaminated with hazardous substances					ces
13.1.3.	Waste	treatment – relevant i	nformation:			
	No info	ormation available				
	<u> </u>					
13.1.4.	Sewage	e disposal – relevant ir	nformation:			
	Waste	must not be disposed	of into the sewage system			
13.1.5.	Other o	disposal recommenda	tions:			
	authori	ized by the ministry in	ct's remains into the sewag charge. Do not dispose of ors authorized by the minis	the packaging into the		
13.1.6.	Releva	nt Community provision	ons:			
	Disposal must be made according to official regulations.					
SECTION	N 14 TRA	NSPORT INFORMAT	ION			
	Transpor	ting/shipment by road	d (ADR)			
UN num	······································		1219			
UN prop	er shippiı	ng name:	Isopropanol			
Transpor	t hazard	class(es):	3			
Packing	group:		II			
Environn	nentally h	nazardous:	-			



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Trading name:	TB DECOLORIZER FLUORESCENT					
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Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
UN number:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	П
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:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-

SECTION 15. Regulatory information

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



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Trading name:		TB DECOLORIZER FLUORESCENT				
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	EU regulations	
	Authorization and/or restric	tions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 1999 guideline)	/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 assessment	
	None	

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



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16.2	Abl	oreviations and acronyms.	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:		-			
16.4.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classif	icatio	า	Classification procedure			
_			-			
16.5.	Rel	evant H statements (numl	per and full text)			
	H:	H225	Highly flammable liquid and vapor.			
		H314	Causes severe skin burns and eye damage.			
		H319	Causes serious eye irritation			
		H331	Toxic if inhaled.			
		H336	May cause drowsiness or dizziness.			
16.6.	Training advice:		-			
			** "X" in the product code marks different volumes (different packagings of the product)			
16.7.	.7. Further information:		We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

A	ANNEX: Exposure scenario resulting to chemical safety assessment
-	



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Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

SECT	ION 1: Identification of	the substanc	e/mixture	e and of the company/undertaking		
1.1	Product identifier					
	Trading name:	TB PERMAI	NGANATE	REAGENT		
	Chemical name:	-				
	Catalogue number:	TBP-OT-X*	*			
1.2	Relevant identified us	es of the subs	stance or n	nixture and uses advised against		
	Uses:			stain for use in TB-Stain Fluorescent kit and TB-Stain ne O kits.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advi	sed against:	device, ı	duct is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes.		
1.3	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:	Telefax.:		+385 1 2404039		
	e-mail of competent բ	e-mail of competent person:		msds@biognost.hr		
	National contact:		-			
1.4	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue Dir	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:	Other information:		-		

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance of	or mixture				
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and catego	ory code:		Hazard statements*:		
	Aquatic Chronic 3		H412			
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-	statements: see Sl	ECTION 16			
2.2	Label elements					
	Product identification: TB PERMANGANATE REAGENT					
	Identification number: -					
	Authorization number:	-				



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	Signal word:	-
	Hazard statements:	H412 Harmful to aquatic life with long lasting effects.
	Precautionary statements:	P273 Avoid release to the environment P501 Dispose of contents/container in accordance with local regulations.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	erties:
	No known endocrine disrupt	ing properties
	Results of PBT and vPvB as PBT or a vPvB.	sessment : According to the results of its assessment, this substance is not a

SECTION 3. Cor	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)		
7722-64-7/ 231-760-3/ 025-002-00-9	-	<1%	potassium permanganate	Ox. Sol. 2; H272 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Repr. 2; H361d		

SECT	ION 4. First aid measures	
4.1	Description of first aid measu	ıres
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.



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	Self-protection of the first aider:	-	
4.2	Most important symptoms and effects, both acute and delayed		
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.	
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.	
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.	
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.	
4.3	Indication of any immediate medical attention and special treatment needed		
	-		

SECTION	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Water spray, foam, dry powder, CO ₂			
	Unsuitable extinguishing media:	No information available			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	May product toxic fumes of carbon monoxide if burning.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit o	compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Do not contaminate the environment	ent with extinguishing media.			

SECTIO	ON 6. Accidental release measur	res
6.1	Personal precautions, protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
	Protective equipment:	Use personal protective equipment (see Section 8).
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.
	Emergency procedures:	Mark the area using proper signs.
6.1.2.	For emergency responders:	
	Use protective equipment; in ca (see Section 8).	se of inadequate ventilation use adequate airways protective equipment
6.2	Environmental precautions:	



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	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for cor	ntainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal in	formation.		

SECTIO	ON 7. Handling and storage			
7.1	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat.	
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
	Other measures:		-	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.			
7.2	Conditions for safe storage, including any incor	npatibilities		
	Technical measures and storage conditions:		htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C.	
	Packaging materials: Manufactu containers		urer's original packaging. Avoid metal s.	
	Requirements for storage rooms and vessels: Keep away tightly clo		ay from food and drink. Keep the containers osed.	
	Advices for storage equipment:		e must be made of hard material; floors sistant to chemicals. There must be no drain ly leads into sewage system. Secure proper .	



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	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8	B. Exposi	ure contr	ols/perso	nal prote	ection			
8.1 Co	ontrol pa	rameters						
Substance		CA	S No	l l	cupational exposure limit alues/short term values		Biological limit values	
					ı	opm	mg/m³	
Potassium	permang	ganate	7722	2-64-7		-	0.5	-
Substance	name:	_						
EC No:		_	CAS No	: -				
DNEL				<u> </u>				
					Ind	lustrial		
Route of exposure:		Acu effect		Acute effect systemic			Chronic effect local	Chronic effect systemic
Oral		-		-		-		-
Inhalation		-		-		-		0.218 mg/m³ (potassium permanganate)
Dermal		-		-		-		-
Critical phy	sical par	ameters: s	solubility,	flammab	ility, cor	rosivity:	-	
					Coi	nsumer		
Route of		Acı		Ad	cute		Chronic	Chronic
exposure:		effect	local	effect s	systemic		effect local	effect systemic
Oral		-		-		-		-
Inhalation		-		-		-		-
Dermal		-		-		-		-
PNEC								
Environme	ntal prot	ection tar	get			PNEC		
Fresh wate	r					0.06 μg/l (potassium permanganate)		
Freshwater	sedimer	nts				no information available		
Marine wat	ter					no information available		



Marine sediments

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no information available

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Food chai	in		no information available			
Microorga	anisms in sewage treatment		1.64 mg/l (potassium permanganate)			
Soil (agric	cultural)		no information available			
Air			no information available			
			1			
8.2	Exposure controls					
8.2.1.	Appropriate engineering controls	S				
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:		In accordance with Section 7.			
	Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent ex	rposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment	'ersonal protection equipment				
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection					
	Hand protection:	Protec	tive nitrile gloves, >0.11 mm thick (EN 374).			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) ang sleeves (EN 340) and shoes that cover the entire foot.			
8.2.2.3.	Respiratory protection:		quired under normal conditions of use. Use suitable tory protective device when high concentrations are t.			
8.2.2.4.	Thermal hazards:	No info	ormation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Se	ction 6			
	Structural measures to prevent exposure:	Use mo	modern equipment.			
	Organisational measures to	Adapt	the work process to the required working conditions of the			

workplace.

prevent exposure:



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Technical measures to prevent	See Section 6
exposure:	See Section 0

1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	dark purple	No information available
	Odour/odour threshold:	odourless/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	6.1 – 6.9	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2	Other information		

SECTIO	SECTION 10. Stability and reactivity					
10.1	Reactivity:	See subsections 10.3 through 10.5.				
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).				
10.3	Possibility of hazardous reactions:	No dangerous reactions known.				
10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.				



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10.5	Incompatible materials:	Reducing agents, sulfuric acid, flammables, metals and reactive organic materials.
10.6	Hazardous decomposition products:	Carbon oxides (CO, CO ₂). Oxygen, oxides of potassium and manganese.

SECTION 11. To	xicological info	rmation					
			ed in Regu	lation (EC) No 127	2/2008		
Acute to	oxicity:						
Route of exposure:	Method	Species	Do	ose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure t	ime	Results
Oral:	-	rat		LD ₅₀	-		750 mg/kg (potassium permanganate)
Dermal:	-	-	-		-		-
Inhalation:	-	-	-		-		-
Specific	target organ tox	icity – single ex	xposure (S	TOT SE):		1	
	S _l	pecific effects		Target c	organ		Note
Oral:	No informat	ion available		No information a	available	-	
Dermal:	No informat	ion available	No information available -				
Inhalation:	No informat	ion available	No information available		available	-	
<u> </u>		;					
Aspiration	on hazard:		No inform	mation available.			
:							
Irritation	n and corrosion						
	Expo	sure time	Spec	ies Evaluatio	on Method	d	Note
Skin corrosion/irritation	on:		-	-	-	-	
Serious eye damage/irritatior	- n		_	-	-	-	
Sensitiza	ation						
Skin sensitization	n: -						
Respiratory sensi	itization: -						
	ms related to the	physical, chen	nical and t	oxicological chara	cteristics		
Oral exposure:	No inforn	nation available	2.				



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Dermal exposure	:	No informati	on available.				
Inhalation exposi	ure:	No informati	on available.				
Eye exposure: No informati			on available.				
Repeate	d dose	toxicity (sub	acute, subchro	onic, chronic)	:		
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	n -
Subacute dermal	No information available		No information available	No information available	No information available	No information available	n -
Subacute inhalation	No information available		No information available	No information available	No information available	No information available	n -
Subchronic oral	No information available		No information available	No information available	No information available	No information available	n -
Subchronic dermal	No information available		No information available	No information available	No information available	No information available	n -
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	n -
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	n -
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	n -
Chronic inhalation	No information available		No information available	No information available	No information available	No information available	n -
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):		
			Specific effec	ets	Target o	rgan	Note
Subacute oral		No informa	tion available		No information	n available	-
Subacute dermal			tion available		No information		-
Subacute inhalat	ion	No informa	tion available		No information	n available	-



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Subchro	nic oral	No information available		No information available	-		
Subchro	nic dermal	No information available		No information available	-		
Subchro	onic 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	-		
	·	arcinogenicity; mutagenicity; re	•	3,			
	Carcinogenicit			ation available.			
	Mutagenicity i	n vitro:	No inform	ation available.			
	Genotoxicity:		No information available.				
	Mutagenicity in vivo:			ation available.			
	Germ cell mutagenicity:			ation available.			
	Reproductive t	oxicity:	No informa	ation available.			
	Summary of properties:	evaluation of the CMR	No informa	ation available.			
11.2	Information or	n other hazards:					
11.2.1.	Endocrine disr	upting properties:					
	components of disrupting pro Article 57(f) regulation (EU	e/mixture does not contain onsidered to have endocrine operties according to REACH or Commission Delegated 1) 2017/2100 or Commission 2018/605 at levels of 0.1% or					
11.2.2.	Other information	tions:					
	_						

SECTION 12. Ecological information							
12.1 Toxicity	12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC ₅₀	96 hours	Oncorhynchus mykiss (rainbow trout)	-	_	0.3 – 0.6 mg/l (potassium permanganate)	



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Troduct code.	· '	IDI OIA		Bute of comp	nation.	2100	C LOLL		version.
Crustacea: EC ₅₀ 48 hours		Daphnia magna (Wate flea)	r -		-		0.084 mg/l (potassium permanganate)		
Algae/aquatic p	olants	IC ₅₀	4 days	-	-		-		-
Other organism	าร	-	_	-	-		_		-
Chronic (long-t toxicity	erm)	Dose	Exposur time	e Species	Me	thod	Evalu	ation	Note
Fish		LC ₅₀	96 hours	No informatio available	n No inform availal		No inforn availa		-
Crustacea:	Crustacea: EC ₅₀		48 hours	No informatio available	n No inform availal		No inforn availa		-
Algae/aquatic plants		IC ₅₀	72 hours	No informatio	n No inform availal		No inforn availa		-
Other organism	าร	-	-	-	-		-		-
12.2 Persist	tence a	and degrada	bility						
Abioti	c degr	adation		,					
	De	egradation h	alf-lives	Method	E	Evaluation			Note
Marine water	No i	nformation a	available	No information available		No information available		_	
Fresh water	No i	nformation a	available	No information available		No information available		-	
Air	No i	nformation a	available	No information available	No inf availal	ormatio	n	-	
Soil	nil I No intormation available		No information available		No information available		-		
:									
Biode	gradati	ion							
% Degradati	on	Time (days)	Method	E	valuatio	n		Note
No information No information N			No information	No inf	ormatio	n	No in	formation	

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

12.3	Bioaccumulative potential
	Octanol-water partition coefficient (log Kow)



Trading name:

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Produ	ct co	de:	TBP-C)T-X**		Date	of co	mpilatio	on:	21 Dec	2022	\	/ersion:	6
Valu	ue	Cor	ncentrat	ion p	Н	°C	Me	ethod		Evalua	tion		Note	
-		-		-					-			-		
	Rio	roncent	tration f	actor (BCF)					i			; 		
\	Value	concern	ti atioii i	Species		N	1ethoc	 I	Ev	/aluatio	n		Note	
No info	ormati	ion	No availab	inform	ation	No info	rmatio			ormatio		-		-
	Chr	onic ec	otoxicity	/		i				į.				
	Va	llue		Dose		osure ime	Spe	ecies	Meth	nod	Evalu	ation	Note	
Chroni	c toxic	city on	fish	LC ₅₀	No infor avail	mation able	No inforr availa	mation ible	No inform availab		No information available		-	
Chroni crustac		city on aphnia))	EC ₅₀	No information available		No inforr availa	nation able	No inform availab		No informa availab		-	
12.4	Мо	bility in	soil											
				d distributi	on in e	environme	ental c	ompart	ments:					
		•	ation av					•						
	Sur	face ter	nsion:											
		Value		°C	С	oncentrat	tion		Metho	od			Note	
	information in			ormation iilable		informat ailable	ion	No inf	ormatio ole					
	Ads	orption	n / deso	rption										
Transp	-	A	/D coef	ficient	lo	og Kow	Eν	/aporati	on rate	٨	Лethod		Note	
Soil-wa	ater	No availa		formation	No ii availa	nformatio able		o inform ailable	ation	No in	formation ble	on -	-	



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Trading name:			TR DE	PMANGANATE	PEAGENT	rage 13 of 1	-			
,		TDD OT V++	TBD OT V## Data of commilations 21 Data 2022 Variance C							
Product code:		TBP-OT-X** Date of compilation: 21 Dec 2022				Version:	6			
Water-a	No information available				No information available	-				
Soil-air	ir No information available		n No information available	No information available	No information available	-				
12.5.	Results o	f PBT and vPvB ass	sessment							
	according	g to REACH Article		n Delegated regul	to have endocrine o					
12.6.	Endocrin	e disrupting prope	rties							
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.									
12.7.	Other ad	verse effects								
	No inforr	nation available								
SECTIO	N 13. Disp	oosal consideration	ons							
13.1	Waste 1	treatment method	s							
	=									
13.1.1.	Produc	t/Packaging dispo	sal:							
	Submit Protect	•	e legal person autho	rized by the Minis	try of Environmental	and Nature				
13.1.2.	Waste (codes/waste desig	nations according to	o Law:						
			5		ntaminated with haz	ardous substar	nces			
		· ·								
13.1.3.	Waste 1	treatment – releva	nt information:							
	No info	ormation available								
13.1.4.	Sewage	e disposal – releva	nt information:							
	Waste ı	must not be dispo	sed of into the sewa	ge system.						
13.1.5.	Other o	disposal recommer	ndations:							
	Do not dispose of the product's remains into the sewage system. Submit the remains to the authorized by the ministry in charge. Do not dispose of the packaging into the sewage syste the packaging to the collectors authorized by the ministry in charge.									



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13.1.6. Relevant Community pro	visions:
-	
SECTION 14 TRANSPORT INFORM	IATION
Transporting/shipment by	road (ADR)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transport hazard class(es):	9
Packing group:	III .
Environmentally hazardous:	
Special precautions for user:	-
Transporting/shipment by	rail (RID)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transport hazard class(es):	9
Packing group:	III .
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport	(ADN)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transport hazard class(es):	9
Packing group:	lii e
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by	sea (IMDG)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transport hazard class(es):	9
Packing group:	lii e
Environmentally hazardous:	_
Special precautions for user:	-



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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:	3082	
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)	
Transport hazard class(es):	9	
Packing group:	III	
Environmentally hazardous:	-	
Special precautions for user:	-	
Further information: Packages smaller than or equal to 5 kg / L, not dangerous goods of Class 9.		

Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU regulations		
Authorization and/or res	strictions of use	
Authorizations:	-	
Restrictions:	-	
Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);	



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	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 assessment	
	None	

SECTIO	ON 16. Other information			
16.1	Indication of changes:	-		
16.2	Abbreviations and acronyms	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classif	ication	Classification procedure		
_		-		
16.5.	Relevant H statements (num	per and full text)		
	272	May intensify fire; oxidiser.		
	302	Harmful if swallowed.		
	H: 361d	Suspected of damaging the unborn child.		
	400	Very toxic to aquatic life.		
	410	Very toxic to aquatic life with long lasting effects.		
	412	Harmful to aquatic life with long lasting effects		
16.6.	Training advice:	- <u> </u>		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		



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ANNEX: Exposure scenario resulting to chemical safety assessment
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