

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 AURAMIN	TB AURAMINE-RHODAMINE REAGENT			
	Chemical name:	-				
	Catalogue number:	TBA-OT-X**				
1.2.	Relevant identified	uses of the sub	ostance or m	nixture ar	nd uses advised against	
	Uses:			For use	in TB-Stain Fluiresccent kit.	
	Uses advised agair	nst:		Only th	e identified uses are advised.	
	Reason why uses a	dvised against:		duct is intended for use only as an <i>in vitro</i> stic medical device, registered at the Agency for hal Products and Medical Devices and there is no to use it for other purposes.		
1.3.	Details of the supp	Details of the supplier of the safety data sheet				
	Supplier:		BioGno	BioGnost Ltd.		
	Address:		Medjug	Medjugorska 59, Zagreb		
	Telephone numbe	r:	+385 1	+385 1 2409997		
	Telefax:		+385 1	+385 1 2404039		
	E-mail of compete	nt person:	msds@	<u>@biognost.hr</u>		
	National contact:		-			
1.4.	Emergency telephone numbers					
	National Protection and Rescue Directorate:			112		
	Medical information	on:			+385 1 2348 342	
	Other information:					

SECTIO	ON 2. Hazards identification				
2.1.	Classification of the substance	or mixture			
2.1.1.	Classification according to Reg	julation (EC) No	o. 1272/2008 (CLP)		
	Hazard class and catego	ry code:	Hazard statement*:		
	Flam. Liq. 2		H225		
2.1.2.	2.1.2. Additional information				
	-	-			
*For fu	Ill text of Hazard- and EU Hazard-	statements: see	e Section 16.		
2.2.	Label elements				
	Product identification:	TB AURAMIN	NE-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	
	No known endocrine disrupti 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	CTION 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 we not contaminate the environm	vith water spray. Collect contaminated fire fighting water separately. Do ent with extinguishing media.			

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



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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	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:	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 on personal protection equipment. See Section 13 for disposal information.			

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



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	Technical measures and storage conditions:	ventilated	ghtly closed and upright set containers in a well storage rooms at temperatures ranging from 15 to tect from heat and direct sunlight.		
	Packaging materials:	Manufact	urer's original packaging.		
	Requirements for storage rooms and vessels:	Keep awa	y from food and drink. Keep the containers tightly		
	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 us	ace the unused material in the storage room and e empty containers for storing other chemicals. Do with incompatible materials (see Section 10).		
7.3.	Specific end use(s)				
	Recommendations:		-		
	Industrial sector specific solutions:		-		

SECTION 8. Exposure controls/personal protection						
8.1. Control para	meters					
Substance	CAS No		Occupational exposure limit values/short term values			Biological limit values
			ppm		mg/m³	
Ethanol	64-17	-5	1000/	-	1900/-	No information available
Substance:	-					
EC No:			CAS No: -		-	
DNEL						
		Ind	lustrial			
Route of exposure:	Acute	Acute		Chr	onic	Chronic
Route of exposure:	effect local	effect syster	mic	effect local		effect systemic
Oral	-	-	-			-
Inhalation 1900 mg/m ³ (ethanol)		-		-		380 mg/m³ (ethanol)
Dermal -		-	-			343 mg/kg (ethanol)
Critical physical parameters: solubility, flammability, corrosivity:						
Consumer						
Pouto of ovnocure	Acute	Acute		Chronic		Chronic
Route of exposure:	effect local	effect syster	nic	effec	t local	effect systemic



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Oral		-	_		-		87 mg/kg bv	v/day (ethanol)
Inhalation	า	950 mg/m³ (ethanol)	-		-		114 mg/m³ (<u> </u>
Dermal		-	-		-		206 mg/kg (e	ethanol)
PNEC								
Environm	Environmental protection target			PNEC				
Fresh wat	ter			0.96 mg/l (ethanol)			
Freshwate	er sedimer	nts		3.6 mg/kg	(ethanol)			
Marine w	ater			0.79 mg/l (ethanol)			
Marine se	ediments			2.9 mg/kg	(ethanol)			
Food cha	in			380-720 m	g/kg kg (ethar	nol)		
Microorg	anisms in	sewage treatment		580 mg/l (e	ethanol)			
Soil (agri	Soil (agricultural)			0.63 mg/kg (ethanol)				
Air				no information available				
8.2.	Exposure controls							
8.2.1.	Appropri	ate engineering cont	rols					
	measure	re/mixture related s to prevent exposure lentified uses:	<u> </u>	Do not eat, drink or smoke in the workspace. Use personal protective equipment.				
	Structura exposure	ıl measures to prever ::	nt	No information available				
	_	tional measures to exposure:		Organization of work in order to reduce other worker's influence during work process.			cer's influence	
	Technica exposure	l measures to preven ::	t	See Section 7.2				
8.2.2.	Personal	protection equipmen	nt					
8.2.2.1.	Eye and face protection: of co		ncentration		e gas mas	sk that covers	of lower levels the entire face	
8.2.2.2.	Skin prot	ection						
				standard EN	374.	-	e EU Directive	2016/425/EEC
	Hand pro	otection:			terial: nitrile ru			
				Glove thickness: ≥0.50 mm Break through time: >480 min				
	<u> </u>			DIEAK UNI	ough time. >46	DU IIIIII		



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	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:	a filter for organic v	mask (EN 136) or half mask (EN 140) equipped with apors, type "A" (boiling point >65°C) acording to en concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No information avai	iilable	
8.2.3.	Environmental exposure cont	rols		
	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 preven	nt exposure:	See Section 6	

9.1.	Information on basic physical and	l 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
	Lover 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 n- octanol/water (log value):	no information available	no information available
	Vapour pressure:	No information available	no information available



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	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.	

SECTIO	N 11.	Toxicological	information	
				_

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

7100	react toxicity.					
Route of exposure:	Method	Species	Effective Dose LD_{50}/LC_{50} or $ATE_{mixture}$	Exposure time	Results	
Oral:	No information available	rat	LD ₅₀	-	7.060 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)	20.000 mg/l (ethanol)	

Specific target	organ toxicity	, cinala av	nacura /	CTOT CEV
Specific target	Organ toxicity	/ - Siliqie ex	posure (3101-3L).

	Specific effects	Target organ	Note
Oral:	No information available	No information available	-
Dermal:	No information available	No information available	-
Inhalation:	No information available	No information available	-

Aspiration hazard:	No information available
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Irritation ar	nd co	rrosion						
IIIItation ai	iu coi	Exposure t	ime	Species	Fyal	uation	Metho	d Note
Skin corrosion/irritat	tion	No information available	No	information	No inform		No informatio available	
Serious eye damage/irritatio	on	No information available	n No availal	information ole	No inform available	ation	No informatio available	n -
Sensitization								
Skin sensitization		No informa	ation available	e				
Respiratory sensitization:	-		ation availabl					
Symptoms re	elated	I to the physic	al, chemical a	and toxicologica	al characteri	stics		
Oral exposure:		Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.						nd vomiting.
Dermal exposui	re:	_		rt exposure, res g and tingling	•		t likely. Long-ter	m exposure
Inhalation exposure:			_	nts of vapors in ache and nause		ly ventilat	ed perimeter ma	y cause
Eye exposure:		Direct eye co sensation.	ontact may ca	use slight to m	oderate irrit	ation, lacr	imation and bur	ning
Repeated do	se to	xicity (subacut	e, subchronic	c, chronic)				
,		Dose	Exposure time	Species	Meth	od	Evaluation	Note
Subacute oral		ormation in	lo nformation vailable	No informa available	ntion No informavaila	mation able	No information available	-
Subacute dermal		ormation in	No nformation vailable	No informa available	ntion No informavaila	mation able	No information available	-
Subacute inhalation		ormation in	lo nformation vailable	No informa available	ition No infor	mation able	No information available	_



Reproductive toxicity:

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Product code	: TBA-OT-X	X**	Date of comp	ilation:	29 Dec	ember 2022	Version:
Subchronic	No	No	No information	n No		No	
oral	information available	information available	available	infor avail	mation able	information available	-
Subchronic dermal	No information available	No information available	No information	on No infor avail	mation able	No information available	-
Subchronic inhalation	No information available	No information available	No information	on No infor avail	mation able	No information available	-
Chronic oral	No information available	No information available	No information	on No infor avail	mation able	No information available	-
Chronic dermal	No information available	No information available	No information	on No infor avail	mation able	No information available	-
Chronic inhalation	No information available	No information available	No information	on No infor avail	mation able	No information available	-
Specific targ	get organ toxicity	y - repeated expo	osure (STOT-RE):	•			
1		Specifi	ic effects		Target or	rgan	Note
Subacute oral		No information	n available	No info	rmation a	vailable -	
Subacute derm	nal	No information	n available	No info	rmation a	vailable -	•
Subacute inhal	ation	No information	n available	No info	rmation a	vailable -	•
Subchronic ora	al	No information	n available	No info	rmation a	vailable -	•
Subchronic de	rmal	No information	n available	No info	rmation a	vailable -	•
Subchronic inh	alation	No information	n available	No info	rmation a	vailable -	•
Chronic oral		No information	n available	No info	rmation a	vailable -	•
Chronic derma	I	No information	n available	No information available -		•	
Chronic inhalation No information availab		n available	No info	rmation a	vailable -		
CMR effects	(carcinogenicity	, mutagenicity, r	eproductive toxic	ity)			
Carcinogenicity:			No infe	No information available			
Mutagenicity in-vitro:			No info	No information available			
Genotoxicity:			No inf	No information available			
Mutagenicit	y in-vivo:		No info	No information available			
Germ cell mutagenicity :				No information available			

No information available



Abiotic degradation

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Sumi	nmary of evaluation of the CMR properties: No	nformation available		
11.2.	Information on other hazards:			
11.2.1.	Endocrine disrupting properties:			
	No known endocrine disrupting properties that affect human health.			
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	-	-	-	-	-	-



Soil

No information available

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	5 0 0						_
		Degradation half-lives	Method		Evaluation		Note
Marine water	No ir	nformation available	No information available	No ir availa	nformation able	-	
Fresh water	No ir	nformation available	No information available	No ir availa	nformation able	-	
Air	No ir	nformation available	No information available	No ir	nformation able	-	

Biodegradation				
% Degradation	Time (days)	Method	Evaluation	Note
_		-	-	-

No information

available

No information

available

12.3.	Bioaccumulative potential					
	Octanol-water partition coefficient (log Kow)					
Value	Concentration	рН	°C	Method	Evaluat ion	Note
-	-	_	_	-	_	-

DIOCOTIC	entration Factor (BCF)			
Value	Species	Method	Evaluation	Note
No information available	No information available	No information available	No information available	-

Chronic ecotox	Chronic ecotoxicity					
Value	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC ₅₀	No information available	No information available	No information available	No information available	-
Chronic toxicity on crustacea (Daphnia)	EC ₅₀	No information available	No information available	No information available	No information available	_



Protection.

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		:		:					
12.4.	Mobility	, in soil							
12.4.	1		d distributi	on in environm	nental compart	tments:			
		rmation av			icital compan	unicino.			
		tension:							
				9.5	Concentrati	N4	ull		.1-4-
	V	alue		°C	on	ivie	thod	ין	Note
	No ir availabl	formation e	No information available		No No information available available		ormation -		
Adsc	orption / c	lesorption							
Transpo	ort	A/D coeffi Henry's coi		log Kow	Evaporat	tion rate		Method	Note
Soil-Wa	nter No	int ilable	ormation	No information	on No inform available	nation	No information available		-
Water-	Air No ava	int ilable	ormation	No information	on No inform available	nation	No ir avail	nformation able	-
Soil-Air	No ava	int ilable	ormation	No informati available	on No inform available				-
12.5.	Results	of PBT and	vPvR asse	ssment					
12.5.				product does n	ot contain anv	PBT or	vPvB sub	stances.	
	<u> </u>		, ,		<u>, , , , , , , , , , , , , , , , , , , </u>				
12.6.	Endocri	ne disruptii	ng propert	ies					
	Based c	n available	data, does	not contain e	ndocrine disru	ptors.			
12.7.	Other a	dverse effe	cts						
	No adv	erse effects	are expec	ted.					
SECTIO	N 13. Dis	sposal cons	sideration	S					
13.1.		reatment n							
13.1.1.	Produ	ct/Packagin	a disposal						
13.1.1.	FIOUU	Ly rackayiii	g disposal						

Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature



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13.1.2.	Waste codes/waste designations according to Low:			
	Packaging that contains residu	ual hazardous substances or is contaminated with hazardous substances		
13.1.3.	Waste treatment – relevant in	formation:		
	No information available			
13.1.4.	Sewage disposal – relevant in			
	Waste must not be disposed of	of into the sewage system.		
13.1.5.	Other disposal recommendati			
	•	t's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. Submit		
		rs authorized by the ministry in charge.		
13.1.6.	Relevant Community provision	ns:		
	Disposal must be made accord	ding to official regulations.		
SECTION	I 14. Transport information			
Tran	sporting/shipment by road (AD	R)		
UN numl	per	1170		
UN prop	er shipping name:	Ethanol solution		
Transpor	t hazard class(es):	3		
Packing (group:	II		
Environm	nental hazards:	No information available		
Special p	recautions for user:	-		
Tran	sporting/shipment by rail (RID)			
UN numl	per:	1170		
UN prop	er shipping name:	Ethanol solution		
Transpor	t hazard class(es):	3		
Packing (group:	II		
Environm	nental hazards:	No information available		
Special p	recautions for user:	-		
Tran	sporting/shipment by inland wa	aterways (ADN)		
UN numl	oer:	1170		
UN prop	er shipping name:	Ethanol solution		
Transpor	t hazard class(es):	3		



SAFETY DATA SHEET

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

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

Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by sea (IMDG	i)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
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:	II
Environmental hazards:	No information available
Special precautions for user:	-
Further - information:	

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

	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 guideline)	1999/13/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 assess	ment		
	None	None		

SECTIO	SECTION 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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Trade name:	TB AURAMINE-RHODAMINE REAGENT				
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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:	-		
pr 16.7. Further information: W		** "X" in the product code marks different volumes (different packaging 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.		

AN	NNEX: Exposure scenario resulting to Chemical safety assessment
_	



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

1.1	CTION 1: Identification of the substance/mixture and of the company/undertaking Product identifier					
1.1			DIZED ELL	IODECCENT		
	Trading name:	TB DECOLO	KIZEK FLU	JORESCENT		
	Chemical name:	-				
	Catalogue number:	TBF-OT-X**	TBF-OT-X**			
1.2	Relevant identified us	ses of the substance or mixture and uses advised against				
	Uses:		For use i	in TB-Stain Fluorescent and TB-Stain Auramine O kits.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:	Telefax.:		+385 1 2404039		
	e-mail of competent p	person:	msds@b	msds@biognost.hr		
	National contact:		_			
1.4	Emergency telephone	Emergency telephone number				
	National Protection and Rescue Direction Medical information:		ectorate:	112		
				+385 1 2348 342		
	Wicalcai illioilliation.					

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and categ	ory code:	Hazard statements*:			
	Flam. Liq. 2		H225			
	Eye Irr. 2		H319			
	STOT SE 3		H336			
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-	-statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	TB DECOLORIZI	ER FLUORESCENT			
	Identification number:	-				



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Trading name:	TB DECOLORIZER FLUORESCENT				
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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	
	No known endocrine disrupt Results of PBT and vPvB as	

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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Trading name:	TB DECOLORIZER FLUORESCENT				
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General notes: If the suggested first aid measures do not medical attention.	Description of first aid measures				
Following inhalation: ventilated area or out for fresh air. In casprovide the afflicted person with oxygen. Remove contaminated clothing. Immedia water for at least 20 minutes. Seek medic of irritation remain. Rinse out with plenty of water with the eleast 20 minutes. If the symptoms remain ophthalmologist. Rinse the mouth thoroughly with 1-2 gla consult a physician and show the contain swallowing large quantities, transport the hospital. Self-protection of the first aider: Most important symptoms and effects, both acute and delayed Following inhalation: Depending on concentration and exposuriritation, rash, skin drying and skin crack Following eye contact: Depending on concentration and exposuriritation, tearing, redness and pain. Depending on concentration and exposuriritation, tearing, redness and pain.	prove sufficient, seek		notes:	General n	
Following skin contact: water for at least 20 minutes. Seek medic of irritation remain. Rinse out with plenty of water with the eleast 20 minutes. If the symptoms remain ophthalmologist. Rinse the mouth thoroughly with 1-2 gla consult a physician and show the contain swallowing large quantities, transport the hospital. Self-protection of the first aider: Most important symptoms and effects, both acute and delayed Following inhalation: Depending on concentration and exposu irritation, rough, and dyspnea. Pollowing skin contact: Depending on concentration and exposu irritation, rash, skin drying and skin crack Depending on concentration and exposu irritation, tearing, redness and pain. Depending on concentration and exposu irritation, tearing, redness and pain.		ventilate	ng inhalation:	Following	
Following eye contact: Following ingestion: Following ingestion: Self-protection of the first aider: Following inhalation: Following inhalation: Following skin contact: Following eye contact: I least 20 minutes. If the symptoms remain ophthalmologist. Rinse the mouth thoroughly with 1-2 gla consult a physician and show the contain swallowing large quantities, transport the hospital. - 4.2 Most important symptoms and effects, both acute and delayed Depending on concentration and exposuriritation, cough, and dyspnea. Depending on concentration and exposuriritation, rash, skin drying and skin crack Depending on concentration and exposuriritation, tearing, redness and pain. Depending on concentration and exposuriritation, tearing, redness and pain.		water fo	ng skin contact:	Following	
Following ingestion: Self-protection of the first aider: Most important symptoms and effects, both acute and delayed Following inhalation: Depending on concentration and exposuring irritation, rash, skin drying and skin crack Following eye contact: Depending on concentration and exposuring irritation, rash, skin drying and skin crack Depending on concentration and exposuring irritation, tearing, redness and pain. Depending on concentration and exposuring irritation, tearing, redness and pain.	•	least 20	ng eye contact:	Following	
4.2 Most important symptoms and effects, both acute and delayed Following inhalation: Depending on concentration and exposum ucosa irritation, cough, and dyspnea. Depending on concentration and exposurirritation, rash, skin drying and skin crack Depending on concentration and exposurirritation, tearing, redness and pain. Depending on concentration and exposurirritation, tearing, redness and pain.	r or label. In case of	consult a swallowi	ng ingestion:	Following	
Following inhalation: Depending on concentration and exposure mucosa irritation, cough, and dyspnea. Depending on concentration and exposure irritation, rash, skin drying and skin crack Depending on concentration and exposure irritation, tearing, redness and pain. Depending on concentration and exposure irritation, tearing, redness and pain.		: -	otection of the first aider:	Self-prote	
Following innalation: mucosa irritation, cough, and dyspnea. Depending on concentration and exposurirritation, rash, skin drying and skin crack Depending on concentration and exposurirritation, tearing, redness and pain. Depending on concentration and exposurirritation, tearing, redness and pain.	Most important symptoms and effects, both acute and delayed				
Following skin contact: irritation, rash, skin drying and skin crack Depending on concentration and exposurirritation, tearing, redness and pain. Depending on concentration and exposuring and skin crack	time, it may lead to	•	ng inhalation:	Following	
irritation, tearing, redness and pain. Depending on concentration and exposu	•		ng skin contact:	Following	
·	time, it may lead to		ng eye contact:	Following	
Following ingestion: stinging and digestive mucus damage, al vomiting.	•	stinging	ng ingestion:	Following	
4.3 Indication of any immediate medical attention and special treatment needed		dical attention	on of any immediate med	Indication	4.3

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Switzble oution viabing modice 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 o	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.

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 (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 cor	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.			
	See Section 8 for information	on personal protection equipment.			
	See Section 13 for disposal information.				

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



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Trading name:	TB DECOLORIZER FLUORESCENT				
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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	on:	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	noroughly wa	sh hands after work and before eating.	
7.2	Conditions for safe storage, including any incon	ompatibilities		
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in well ventilated storage rooms at temperatures ran from 15 to 25 °C. Protect from heat and direct sun		
	Packaging materials:	Manufactu	urer's original packaging.	
	Requirements for storage rooms and vessels:	Keep away tightly clo	y from food and drink. Keep the containers sed.	
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no that directly leads into sewage system. Secure proventilation.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).		
7.3	Specific end use(s)			
	Recommendations:	-		
	Industrial sector specific solutions:	-		

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



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r roduct co		101-01-7	TCVISI	on date.	21 Dec 2022	version.	
DNEL							
			In	dustrial			
Route of		Acute	Acute		Chronic	Chronic	
exposure:		effect local	effect systemic effect local		effect systemic		
Oral		_	-	-		26 mg/kg (propan-2-ol)	
Inhalation		-	-	-		500 mg/m ³ (propan-2-ol)	
Dermal		-	-	- 888 mg/kg (propan-2-ol)			
Critical physical parameters: solubility, flammability, corrosivity:							
			Co	nsumer			
Route of		Acute	Acute		Chronic	Chronic	
exposure:		effect local	effect systemi	c	effect local	effect systemic	
Oral		-	-	-		26 mg/kg (propan-2-ol)	
Inhalation		-	-	-		89 mg/m³ (propan-2-ol)	
Dermal		-	-	-		319 mg/kg (propan-2-ol)	
PNEC							
Environmer	ntal prote	ction target		PNEC			
Fresh water	r			140.9 mg/l (propan-2-ol)			
Freshwater	sediment	ts		552 mg/kg (propan-2-ol)			
Marine wat	er			140.9 mg/l (propan-2-ol)			
Marine sed	iments			552 mg/kg (propan-2-ol)			
Food chain					rmation available		
		ewage treatment			rmation available		
Soil (agricu					kg (propan-2-ol)		
Air	,			no information available			
. ui							
8.2	Exposur	e controls					
8.2.1.	•	riate engineering	controls				
				Use the product in well ventilated rooms. Use personal			
		ice/mixture related			-	eat, drink or smoke in the	
	prevent exposure during identified uses:			workspace.			
	Structur exposur	uctural measures to prevent osure:			In accordance with Section 7.		
	_	Organisational measures to prevent exposure:			Organization of work in order to reduce other worker's influence during work process.		
	Technic	al measures to pre	event exposure:	Secure proper workspace ventilation in order to keep			



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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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Trading name:	TB DECOLORIZER FLUORESCENT				
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	Flammability:	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Lover 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
	pH:	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	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.			
10.5	Incompatible materials:	No further relevant information available.			
10.6	Hazardous decomposition products:	No dangerous decompostion products known.			

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	LD ₅₀	-	5.840 mg/kg (propan-2-ol)	
Dermal:	-	rabbit	_	-	12.800 mg/kg (propan-2-ol)	



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Trading name:		TB DECOLORIZER FLUORESCENT								
Product code:	TE	BF-OT-X**		Revision	date:	21 Dec	2022	V	ersion:	5
Inhalation:		-	rat	LC ₅₀		4 h		•	ropan-2-ol) rochloric ac	
Specific	c target	organ toxici	tv – sinale e	exposure (S	STOT SE):				
	9		ific effects			Target orga	n		Note	
Oral:	N	o information			No inf	ormation avai		-		
Dermal:	N	o informatior	n available		No inf	ormation avai	lable	-		
Inhalation:	N	o informatior	n available		No inf	ormation avai	lable	may ca	ause drowsi ziness	ness
Aspirat	ion haz	ard:		No infor	mation a	available.				
Irritatio	on and a	corrosion								
IIIIauo	ni anu (Exposu	re time	Spec	ies	Evaluation	Method		Note	
Skin corrosion/irritati	ion:	-		-		-	-	-		
Serious eye damage/irritatio	n			-		-	-	–		
****								·		
Sensitiz										
Skin sensitizatio			formation a							
Respiratory sens	sitizatio	n: No in	formation a	vallable.						
Sympto	oms rela	ated to the p	hvsical. chei	mical and	toxicolo	gical characte	ristics			
Oral exposure:		No informat				9				
Dermal exposur	e:	No informat	ion availabl	e.						
Inhalation expos	sure:	No informat	ion availabl	e.						
Eye exposure:		No informat	ion availabl	e.						
Repeat	ed dos	e toxicity (sub	pacute, subc	hronic, ch	ronic)					
		Dose	Exposure time	Speci	es	Method	Evalua	tion	Note	
Subacute oral	No avail	information able	No information available	No on informavaila	mation able	No information available	No inform availab		-	
Subacute dermal	No avail	information able	No information available	No on informavaila	mation able	No information available	No inform availat		–	



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Trading name:		TB DECOLORIZI	ER FLUORESCENT		
Product code:	TBF-OT-X**	Revision date:	21 Dec 2022	Version:	5

Subacute inhalation	No i availa	nformation ble	No information available	No information available	No information available	No informatio available	on -
Subchronic oral	No i availa	nformation ble	No information available	No information available	No information available	No informatic available	on -
Subchronic dermal	No i availa	nformation ble	No information available	No information available	No information available	No informatio available	on -
Subchronic inhalation	No i availa	nformation ble	No information available	No information available	No information available	No informatio available	on -
Chronic oral	No information available		No information available	No information available	No information available	No informatio available	on -
Chronic dermal	No i availa	nformation ble	No information available	No information available	No information available	No informatio available	on -
Chronic inhalation			No information available	No information available	No information available	No informatic available	on -
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):		
			Specific effec		Target o	rgan	Note
Subacute oral		No informa	tion available		No information	available	-
Subacute derma	l	No informa	tion available		No information	n available	-
Subacute inhalat	ion	No informa	tion available		No information	ı available	-
Subchronic oral		No informa	tion available		No information	ı available	-
Subchronic dern	nal	No informa	tion available		No information	n available	-
Subchronic inhalation No information available				No information	n available	_	
Subchronic inha	ation	No intorma	ilion available				
	lation		tion available		No information	ı available	-
	ation	No informa			No information		-
Chronic oral		No informa	tion available			ı available	-
Chronic oral Chronic dermal Chronic inhalatio	on	No informa No informa No informa	tion available tion available tion available	/; reproductive	No information	ı available	-
Chronic oral Chronic dermal Chronic inhalatio	on fects (ca	No informa No informa No informa arcinogenicity	tion available tion available tion available		No information No information toxicity)	n available n available	- - - riteria are not met.
Chronic oral Chronic dermal Chronic inhalatio	on fects (ca genicity	No informa No informa No informa arcinogenicity	tion available tion available tion available	Based on availa	No information No information toxicity) able data, the cla	n available n available ssification cr	
Chronic oral Chronic dermal Chronic inhalation CMR ef	fects (ca genicity enicity <i>ir</i>	No informa No informa No informa arcinogenicity	tion available tion available tion available	Based on availa	No information No information toxicity) able data, the cla	n available n available ssification cr	riteria 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:	MR 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 REAR Article 57(f) or Commission Delegat regulation (EU) 2017/2100 or Commissi Regulation (EU) 2018/605 at levels of 0.1% higher.	ine CH ted ion
11.2.2.	Other informations:	
	-	

SECTION 12. Ecologic	SECTION 12. Ecological information							
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	-		



Trading name:

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Dundalat and a									
Product code:	Т	BF-OT-X**		Re	evision date:	21 Dec 20)22	Version:	5
Algae/aquatic pl	lants	IC ₅₀	72 hours	•	lo information vailable	No information available	No informatic available	on -	
Other organisms	5	-	-	-		-	-	-	
 		;		i		i	i	;	
12.2 Persiste	ence a	nd degrada	bility						
Abiotic	degra	ndation				:	:		
	De	gradation h	alf-lives		Method	Evaluatio	on	Note	
Marine water	No ir	nformation a	available	No i avail	nformation able	No informatio available	n -		
Fresh water	No ir	nformation a	available	No i avail	nformation able	No informatio available	n -		
Air	No information avai		available	No i avail	nformation able	No information available			
Soil	No ir	nformation a	available	No i avail	nformation able	No informatio available	n -		
Biodegi % Degradation No information available	n	Time (days) Iformation		Method nformation lable	Evaluatio No informatio available	n No	Note information	
available		available		avaii	iable	available	ave	anable	
		tive potentia							
		er partition o							
	Conce	entration	рН	°C	Method		ıation	Note	
				-	-	-			
Biocono	centra	tion factor (BCF)						
Value		Speci			Method	Evaluat	ion	Note	
No information	N	•	formation	No ir	nformation	No informat			



12.6.

Endocrine disrupting properties

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	CIII	onic ecoto	xicity							
	Va	lue	Dose	Exposure time	Spe	ecies	Meth	nod	Evaluation	Note
Chronic	c toxio	city on fish	LC ₅₀	No information available	No inform availa	mation Ible	No informa availab	I	o formation vailable	-
Chronio crustac		city on aphnia)	EC ₅₀	No information available	No inforr availa	nation Ible	No informa availab	I	o formation railable	-
12.4	Мо	bility in soi	l							
	Knc	wn or prec	dicted distributi	on in environm	ental c	ompart	ments:			
	No	informatio	n available							
	Sur	face tensio	n:							
		Value	°C	Concentra	tion		Metho	od		Note
	No No information available available				No info	formation -		-		
	Ads	sorption / d	lesorntion							
		1	coefficient		0 0 0 0 0 0 0 0 0					
Transp	ort	-	's constant	log Kow	Eν	/aporati	on rate	Met	:hod	Note
Soil-wa	iter	No available	information	No information		o inform ailable	ation	No infor		-
Water-	air	No available	information	No information		o inform ailable	nation	No infor available		-
Soil-air	•	No available	information	No information		o inform ailable	ation	No infor available		-
12.5	Res	ults of PBT	and vPvB asses	ssment						



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		contain components considered to have endocrine disrupting properties or Commission Delegated regulation (EU) 2017/2100 or Commission ls of 0.1% or higher.
12.7	Other adverse effects	
	No further relevant information a	available.
·		
SECTIO	N 13. Disposal considerations	
13.1	Waste treatment methods	
13.1.1.	Product/Packaging disposal:	
	Submit for disposal to the lega Protection.	l person authorized by the Ministry of Environmental and Nature
12.1.2	W/	an annual transfer to the second seco
13.1.2.	Waste codes/waste designation	
	Packaging that contains residu	al hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevant info	ormation:
	No information available	
13.1.4.	Sewage disposal – relevant info	ormation:
	Waste must not be disposed or	f into the sewage system.
13.1.5.	Other disposal recommendation	ns:
	authorized by the ministry in ch	s remains into the sewage system. Submit the remains to the collectors narge. Do not dispose of the packaging into the sewage system. Submit authorized by the ministry in charge.
13.1.6.	Relevant Community provision	s:
	Disposal must be made accord	ing to official regulations.
SECTIO	N 14 TRANSPORT INFORMATIO	N .
	Transporting/shipment by road (ADR)
UN num	nber:	1219
UN prop	per shipping name:	Isopropanol
Transpo	rt hazard class(es):	3
Packing	group:	П
Environr	mentally hazardous:	-



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Trading name:		TB DECOLORIZER	FLUORESCENT		
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Special precautions for user:	-
Transporting/shipment by rail (RI	D)
UN number:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	II
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 (IN	MDG)
UN number:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (ICA	AO-TI/IATA-DGR)
UN number:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	II
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					
Product code:	TBF-OT-X**	Revision date:	21 Dec 2022	Version:	5	

	EU regulations	
	Authorization and/or restric	ctions of use
	Authorizations:	_
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 1999 guideline)	9/13/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 assessmen	t
	None	

SECTION 16. Other information	
16.1 Indication of changes:	-



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Trading name:		TB DECOLORIZER	R FLUORESCENT		
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16.2	Abbreviations and acronyms:		ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:		-			
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classif	Classification		Classification procedure			
_	-		-			
16.5.	Rele	evant H statements (numb	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: -		-			
	5.7. Further information:		** "X" in the product code marks different volumes (different packagings of the product)			
16.7.			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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Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6		

SECT	ION 1: Identification of	the substance	e/mixture	e and of the company/undertaking		
1.1	Product identifier					
	Trading name:	TB PERMAN	IGANATE REAGENT			
	Chemical name:	-				
	Catalogue number:	TBP-OT-X**				
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against					
	Uses:		Counterstain for use in TB-Stain Fluorescent kit and TB-Stain Auramine O kits.			
	Uses advised against:		Only the identified uses are advised.			
	Reason why uses advis	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address: Telephone number:		Medjugorska 59, Zagreb			
			+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent person:		msds@biognost.hr			
	National contact:		_			
1.4	Emergency telephone number					
	National Protection ar	nd Rescue Dire	ectorate:	: 112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

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*:		
	Aquatic Chronic 3		H412			
2.1.2.	Additional information					
	-					
*For ful	*For full text of Hazard- and EU Hazard-statements: see SECTION 16					
2.2	Label elements					
	Product identification:	TB PERMANGANATE REAGENT				
	Identification number:	-				
	Authorization number:	-				



PBT or a vPvB.

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

SECTION 3. Con	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	ures
	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 ef	fects, 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		
	-		

SECTIO	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	Additional information			
	Do not contaminate the environment	ent with extinguishing media.			

SECTIO	CTION 6. Accidental release measures				
6.1	Personal precautions, protective	e equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. 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 case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
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.	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: Other measures:		Prevent spilling into the sewage system and waterways.	
			-	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Th	noroughly was	sh hands after work and before eating.	
7.2	Conditions for safe storage, including any incompatibilities			
	- 1		ghtly 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		yay from food and drink. Keep the containers losed.	
	Advices for storage equipment: The storage must be made of hard material; must be resistant to chemicals. There must be that directly leads into sewage system. Secur ventilation.		esistant 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. Expo	sure contr	ols/perso	nal pro	otectio	n					
8.1 Control p	arameters									
Substanc	e	CA	S No			ational e es/short	•	sure limit values	Biological limit values	
					pp	om	n	ng/m³	-	
Potassium permar	nganate	772	2-64-7			-		0.5	-	
Substance name:	-									
EC No: - CAS No: -		-								
DNEL										
					Indu	strial				
Route of	Acı		,	Acute				ronic	Chronic	
exposure:	effect	local	effec	t syster	mic		effe	ct local	effect systemic	
Oral	-		-			-			-	
Inhalation	-		-			-			0.218 mg/m³ (potassium permanganate)	
Dermal	-		-			-			-	
Critical physical pa	arameters: s	solubility,	flamma	ability, d	corro	sivity:		-		
				(Cons	umer				
Route of	Aci			Acute		Chronic			Chronic	
exposure:	effect	local		t syste	mic		effe	ct local	effect systemic	
Oral	-		-			-			-	
Inhalation	-		-			-			-	
Dermal	-		-			-			-	
PNEC										
Environmental protection target					PNEC					
Fresh water						0.06 μg/l (potassium permanganate)				
Freshwater sedime	ents				-			n available		
Marine water					n	o inform	natior	n available		



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Marine sediments	no information available
Food chain	no information available
Microorganisms in sewage treatment	1.64 mg/l (potassium permanganate)
Soil (agricultural)	no information available
Air	no information available

8.2	Exposure controls					
8.2.1.	Appropriate engineering controls					
	Substance/mixture related meas prevent exposure during identifi		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 prevexposure:	/ent	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent e	exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secur stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment	ent				
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:	Protect	tive nitrile gloves, >0.11 mm thick (EN 374).			
	Other skin protection:		ntistatic clothing made of natural fibers (such as cotton) ng 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 control	s				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6			
	Structural measures to prevent exposure:	Use mo	odern equipment.			
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.			



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

Physical state: liquid No information available Colour: dark purple No information available Odour/odour threshold: odourless/no information available Melting point / freezing point: No information available Boiling point or initial boiling point and boiling range: No information available Flammability: No information available No information available Lover and upper explosion limit: No information available No information available Flash point: 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 noctanol/water (log value): No information available No information available No information available Density and/or relative density: No information available Relative vapour density: No information available No information available Particle characteristics: No information available No information available	Information on basic physical and	chemical properties		
Colour: dark purple odourless/no information available odourless/no information available no information available odourless/no information available no information availa		Value	Method	
Odour/odour threshold: Melting point / freezing point: No information available	Physical state:	liquid	No information available	
Melting point / freezing point: Melting point / freezing point: No information available	Colour:	dark purple	No information available	
Boiling point or initial boiling point and boiling range: Flammability: No information available Flash point: No information available	Odour/odour threshold:	-	No information available	
point and boiling range: Flammability: No information available Lover and upper explosion limit: No information available Flash point: No information available No information available Flash point: No information available	Melting point / freezing point:	No information available	No information available	
Lover and upper explosion limit: No information available Flash point: No information available	3.	No information available	No information available	
Flash point: No information available	Flammability:	No information available	No information available	
Auto-ignition temperature: Decomposition temperature: No information available	Lover and upper explosion limit:	No information available	No information available	
Decomposition temperature: Decomposition temperature: Decomposition temperature: No information available	Flash point:	No information available	No information available	
pH: 6.1 – 6.9 No information available Kinematic viscosity: No information available Solubility: No information available Partition coefficient n- octanol/water (log value): Vapour pressure: No information available Density and/or relative density: No information available Relative vapour density: No information available	Auto-ignition temperature:	No information available	No information available	
Kinematic viscosity: No information available No information available No information available No information available Partition coefficient n- octanol/water (log value): Vapour pressure: No information available	Decomposition temperature:	No information available	No information available	
Solubility: No information available Partition coefficient n- octanol/water (log value): Vapour pressure: No information available	pH:	6.1 – 6.9	No information available	
Partition coefficient n- octanol/water (log value): Vapour pressure: Density and/or relative density: No information available	Kinematic viscosity:	No information available	No information available	
octanol/water (log value): Vapour pressure: No information available	Solubility:	No information available	No information available	
Density and/or relative density: No information available Relative vapour density: No information available No information available		No information available	No information available	
Relative vapour density: 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	
Particle characteristics: No information available No information available	Relative vapour density:	No information available	No information available	
	Particle characteristics:	No information available	No information available	

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



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10	0.5	Incompatible materials:	Reducing agents, sulfuric acid, flammables, metals and reactive organic materials.
10	0.6	Hazardous decomposition products:	Carbon oxides (CO, CO ₂). Oxygen, oxides of potassium and manganese.

11.1 Informatio	n on hazard c	lasses as defin	ed in Regu	lation (EC) No 12	72/2008			
Acute toxic	city:							
Route of exposure:	Method	Species	Do	ose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure	time	Results	
Oral:	-	rat		LD ₅₀	-		750 mg/kg (potassium permanganate	
Dermal:	-	-	-		-		-	
Inhalation:	-	-	-		-		-	
Specific ta		cicity – single e	exposure (S				•• •	
		pecific effects		Target			Note	
Oral:		ion available		No information		-	-	
Dermal:		ion available	No information available -			-		
Inhalation:	No informat	ion available		No information	available	-		
Aspiration	hazard:		No infor	mation available.				
Irritation a	nd corrosion							
initation a		sure time	Spec	ies Evaluat	on Metho	d	Note	
Skin corrosion/irritation:	_		-	-	-	-		
Serious eye damage/irritation	-		-	-	-	-		
Sensitization	on							
Skin sensitization:	-							
Respiratory sensitiz	ation: -							



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Dermal exposure	:	No informati	on available.				
Inhalation expos	ure:	No informati	on available.				
Eye exposure:		No informati	on available.				
Repeate	ed dose	e 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	-
Subacute dermal	No availa	information able	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 availa	information able	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available		No information available	No information available	No information available	No information available	-

Specific	target	organ toxicit	<u> </u>	xposure (STOT	RE):		
			Specific effec	ts	Target o		Note
Subacute oral			tion available		No information		
Subacute dermal			tion available		No information		
Subacute inhalat	ion	No informa	tion available		No information	n available -	



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Subchronic oral	No information available		No information available	-			
Subchronic derm	nal No information available		No information available	-			
Subchronic inhal	ation 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 ef	fects (carcinogenicity; mutagenicity	r: reproductive	toxicity)				
	Carcinogenicity:		nation available.				
	nicity <i>in vitro</i> :		nation available.				
Genoto		No inform	nation available.				
Mutage	nicity <i>in vivo</i> :	No inform	No information available.				
Germ ce	ell mutagenicity:	No inform	nation available.				
Reprod	uctive toxicity:	No inform	nation available.				

Summa propert	,	1R No inform	nation available.				
11.2 Informa	tion on other hazards:						
11.2.1. Endocri	ne disrupting properties:						
compor disrupti Article regulati	bstance/mixture does not containents considered to have endocring properties according to REAC 57(f) or Commission Delegation (EU) 2017/2100 or Commission (EU) 2018/605 at levels of 0.1%	ne CH ed on					
11.2.2. Other ir	nformations:	!					

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	Oncorhynchus mykiss (rainbow trout)	-	-	0.3 – 0.6 mg/l (potassium permanganate)



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Crustacea:		EC ₅₀	48 hours	Daphnia magna (Water flea)	-	-		0.084 mg/l (potassium permanganate)
Algae/aquatic _l	olants	IC ₅₀	4 days	-	-	-		-
Other organism	าร	-	-	-	-	-		-
Chronic (long-t toxicity	erm)	Dose	Exposur time	Species	Method	Evalu	ıation	Note
Fish	LC ₅₀ 96 hours		No information available	No information available	No inforn availa	nation ble	-	
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inforn availa	nation ble	-
Algae/aquatic _l	olants	IC ₅₀	72 hours	No information available	No information available	No inforn availa	nation ble	-
Other organisn	าร	-	-	-	-	-		-
Abioti		adation egradation h	alf-lives	Method	Evaluatio	on		Note
Abioti			alf-lives	Method	Evaluatio	on		Note
Marine water	No i	nformation a	vailable	No information available	No information		-	
Fresh water	No i	nformation a	vailable	No information available	No information available	on 	-	
Air	No i	nformation a	vailable	No information available	No information	on	-	
Soil	No i	nformation a	vailable	No information available	No information	on	-	
Biode	gradati	on						
% Degradati		Time (d	days)	Method	Evaluatio	on		Note
No information available No information available		formation	No information available	No informatio	on	No in availa	formation ble	
12.3 Bioacc	cumula	tive potentia	I					

Octanol-water partition coefficient (log Kow)



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e:	TB PERMANGANATE REAGENT								
e: TBP-	OT-X**		Date	e of compilati	on: 21 De	ec 2022		/ersion: 6 Note Note	
Concentra	ntion	рН	°C	Method	Evalu	ation		Note	
-	-		-	_	-		-		
	f(DC								
ncentration		F)	<u> </u>	Method	Evaluati	on		Note	
n No availa	infor	mation			No informati available	on	-		
nic ecotoxic	ty								
ıe	Dose			Species	Method	Evalua	ation	Note	<u>;</u>
ty on fish	LC ₅₀			No information available	No information available	1		-	
ty on	EC ₅₀	No infor	mation able	No information available	No information available	No informa availabl		-	
	Concentration n No availa nic ecotoxici	Concentration Concentration Concentration factor (BC) Species No information available Dose Sy on fish LC50	Concentration pH Concentration factor (BCF) Species No information available Dose Exp t Sy on fish LC50 No information available	Concentration pH °C Concentration factor (BCF) Species No information available Dose Exposure time LC ₅₀ No information available No information available	Concentration pH °C Method Concentration factor (BCF) Species Method No information available Dose Exposure time Species No information available LC ₅₀ No information available No information available No No information available	Concentration pH °C Method Evaluation: 21 Description pH °C Method Evaluation phonocentration factor (BCF) Species Method Evaluation No information available available Dose Exposure time Species Method available phonocentration available available phonocentration phonocentration factor (BCF) Species Method Evaluation No information available phonocentration information available phonocentration information available phonocentration phonoce	Concentration pH °C Method Evaluation Concentration factor (BCF) Species Method Evaluation No information No information available Price ecotoxicity Species Method Evaluation No information No information available No No information available Species Method Evaluation No information available No No information information information available available No No No information available available available available No No No Information available available available available available available	Concentration pH °C Method Evaluation Concentration factor (BCF) Species Method Evaluation No information available No information available Dose Exposure time No information available Species Method Evaluation No information available No information available No information available information available No information available available available No No information available available available No No No information available available available No No No information available available available available	Date of compilation: 21 Dec 2022 Version: Concentration pH °C Method Evaluation Note

12.4	Widdinty III SC)II			
	Known or pre	edicted distributi	on in environmental	compartments:	
	No information	on available			
	Surface tension	on:			
	Value	°C	Concentration	Method	Note
	No information available	No information available	No information available	No information available	-
	Adsorption /	desorption			

Evaporation rate

No information

available

Method

No information

available

Note

log Kow

No information

available

A/D coefficient

Henry's constant

information

No

available

Transport

Soil-water



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							·
Water-a	air No ava	information ilable	No information available	No information available	No information available	-	
Soil-air	No ava	information ilable	No information available	No information available	No information available	-	
	-						
12.5.	Results o	of PBT and vPvB asse	ssment				
	accordin	stance/mixture does g to REACH Article 5 on (EU) 2018/605 at	7(f) or Commission	n Delegated regula			
12.6.	Endocrin	e disrupting propert	ies				
	accordin	stance/mixture does g to REACH Article 5 on (EU) 2018/605 at	7(f) or Commission	n Delegated regula			
12.7.	Other ac	lverse effects					
	No infor	mation available					
SECTIO	N 13. Dis	posal consideration	ıs				
13.1	Waste	treatment methods					
13.1.1.		t/Packaging disposa					
	Submi Protec	t for disposal to the l tion.	legal person autho	rized by the Minist	ry of Environmental	and Nature	
13.1.2.	Waste	codes/waste designa	ations according to	Law:			
	Packag	jing that contains res	sidual hazardous sı	ubstances or is con	taminated with haza	ardous substan	ces
13.1.3.	Waste	treatment – relevant	: information:				
	No inf	ormation available					
13.1.4.	Sewag	e disposal – relevant	information:				
		must not be dispose		ge system.			
13.1.5.	Other	disposal recommend	lations:				
	author	dispose of the prodized by the ministry ckaging to the collec	in charge. Do not o	dispose of the pack	aging into the sewa		



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13.1.6. Relevant Community pro	ovisions:
-	
SECTION 14 TRANSPORT INFORM	
Transporting/shipment by	
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transport hazard class(es):	9
Packing group:	lli .
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:	III
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:	III
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:	-
urther information: Packages smaller than or equal to 5 kg / L, not dangerous goods of Class 9.	

5.1 Safet	Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU re	EU regulations		
Autho	Authorization and/or restrictions of use		
Autho	orizations:	-	
Restr	ictions:	-	
Other	r 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	

SECTION	ON 16	. Other information			
16.1	Indi	cation of changes:	-		
16.2	Abb	previations 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	ication	1	Classification procedure		
16.5.	Rele	evant H statements (numb	er 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:		-		
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.		



SAFETY DATA SHEET

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ANNEX: Exposure scenario resulting to chemical safet	y assessment
-	