

SAFETY DATA SHEET

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

Page 1 of 17

Trading name:		TB PERMANGANATE REAGENT						
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6			

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

SECTIO	SECTION 2. Hazards identification						
2.1	Classification of the substance of	or mixture					
2.1.1	Classification according to Regu	ulation (EC) No 12	72/2008 (CLP)				
	Hazard class and catego	Hazard class and category code: Hazard statements*:					
	Aquatic Chronic 3		H412				
2.1.2.	Additional information						
	-						
*For ful	ll text of Hazard- and EU Hazard-	statements: see Sl	ECTION 16				
2.2	Label elements						
	Product identification:	TB PERMANGAN	NATE REAGENT				
	Identification number:	Identification number: -					
	Authorization number:	-					



Page 2 of 17

Trading name:		TB PERMANGANATE REAGENT						
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6			

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

SECTION 3. 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.



Page 3 of 17

Trading name:		TB PERMANGANATE REAGENT					
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6		

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

SECTION	SECTION 5. Firefighting measures					
5.1	Extinguishing media	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 su	ubstance 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	SECTION 6. Accidental release measures				
6.1	Personal precautions, protective	equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2	Environmental precautions:				



Page 4 of 17

Trading name:	TB PERMANGANATE REAGENT					
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

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

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



Page 5 of 17

Trading name:		TB PERMANGANATE REAGENT			
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

	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 Co	ontrol pa	rameters						
Su	ubstance		CA	S No	l l	•	exposure limit term values	Biological limit values
					ı	opm	mg/m³	
Potassium permanganate 7722-64-7				-	0.5	-		
Substance	name:	_						
EC No:		_	CAS No	: -				
DNEL				<u> </u>				
					Ind	lustrial		
Route of exposure:		Acu effect			cute systemic		Chronic effect local	Chronic effect systemic
Oral		-		-		-		-
Inhalation		-		-		-		0.218 mg/m³ (potassium permanganate)
Dermal		-		-		-		-
Critical phy	sical par	ameters: s	solubility,	flammab	ility, cor	rosivity:	-	
					Coi	nsumer		
Route of		Acı	ute	Ad	cute		Chronic	Chronic
exposure:		effect	local	effect s	systemic		effect local	effect systemic
Oral		-		-		-		-
Inhalation		-		-		-		-
Dermal		-		-		-		-
PNEC								
Environmental protection target PNEC								
Fresh wate	r					0.06 µg/l	(potassium per	manganate)
Freshwater	sedimer	nts				no inform	nation available	
Marine wat	ter					no information available		



Marine sediments

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

no information available

Page 6 of 17

Trading name:		TB PERMANGANATE REAGENT						
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6			

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

workplace.

prevent exposure:



Page 7 of 17

Trading name:		TB PERMANGANATE REAGENT			
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

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

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

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



Page 8 of 17

Trading name:	TB PERMANGANATE REAGENT					
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

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

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



Page 9 of 17

Trading name:		TB PERMANGANATE REAGENT						
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6			

Dermal exposure	:	No informati	on available.							
Inhalation exposi	ure:	No informati	ation available.							
Eye exposure:		No informati	on available.							
Repeate	ed dose	toxicity (sub	acute, subchro	onic, chronic)	i	1	1			
		Dose	Exposure time	Species	Method	Evaluation	Note			
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	n -			
Subacute dermal	No information available		No information available	No information available	No information available	No information available	n -			
Subacute inhalation	No information available No information available		No information available	No information available	No information available	No information available	n -			
Subchronic oral			No information available	No information available	No information available	No information available	า -			
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	n -			
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	n -			
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	n -			
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	n -			
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	n -			
							,			
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):					
			Specific effec	ts	Target o	rgan	Note			
Subacute oral		No informa	tion available		No information available -		-			
Subacute dermal		No informa	ition available		No information available -		-			
Subacute inhalat	ion	No informa	tion available		No information	n available	-			



Page 10 of 17

Trading name:		TB PERMANGANATE REAGENT							
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6				

Subchro	nic oral	No information available		No information available	-				
Subchro	nic dermal	No information available		No information available	-				
Subchro	onic inhalation	No information available		No information available	-				
Chronic	oral	No information available		No information available	-				
Chronic	dermal	No information available		No information available	-				
Chronic	inhalation	No information available		No information available	-				
	·	arcinogenicity; mutagenicity; re	•	3,					
	Carcinogenicit			ation available.					
	Mutagenicity i	n vitro:	No inform	ation available.					
	Genotoxicity:		No information available.						
	Mutagenicity i	n vivo:	No informa	ation available.					
	Germ cell muta	agenicity:	No informa	ation available.					
	Reproductive t	oxicity:	No informa	ation available.					
	Summary of properties:	evaluation of the CMR	No information available.						
11.2	Information or	n other hazards:							
11.2.1.	Endocrine disr	upting properties:							
	components of disrupting pro Article 57(f) regulation (EU	e/mixture does not contain onsidered to have endocrine operties according to REACH or Commission Delegated 1) 2017/2100 or Commission 2018/605 at levels of 0.1% or							
11.2.2.	Other 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	Oncorhynchus mykiss (rainbow trout)	-	_	0.3 – 0.6 mg/l (potassium permanganate)					



Page 11 of 17

Trading name:		TB PERMANGANATE REAGENT					
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6		

Troduct code.	· '	IDI OIA		Bute of comp	nation.	2100	C LOLL		version.	
Crustacea:		EC ₅₀	48 hours	Daphnia magna (Wate flea)	r -	-			0.084 mg/l (potassium permanganate)	
Algae/aquatic p	olants	IC ₅₀	4 days	-	-		-		-	
Other organisms		-	_	-	-		_		-	
Chronic (long-term) toxicity		Dose	Exposur time	e Species	Me	thod	Evalu	ation	Note	
Fish LC ₅₀		96 hours	No informatio available	n No inform availal		No inforn availa		-		
Crustacea:		EC ₅₀	48 hours	No informatio available	n No inform availal		No inforn availa		-	
Algae/aquatic plants		IC ₅₀	72 hours	No informatio	n No inform availal		No inforn availa		-	
Other organisms		-	-	-	-		-		-	
12.2 Persist	tence a	and degrada	bility							
Abioti	c degr	adation		,						
	De	egradation h	alf-lives	Method	E	valuatio	n		Note	
Marine water	No i	nformation a	available	No information available		No information available		_		
Fresh water	No i	nformation a	available	No information available		No information available		-		
Air	No i	nformation a	available	No information available	No inf availal	ormatio	n	-		
Soil No information available		No information available		No information available		-				
:										
Biode	gradati	ion								
% Degradati	on	Time (days)	Method	E	valuatio	n		Note	
No information	1	No ir	formation	No information	No inf	No information No		No in	No information	

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

Bioaccumulative potential
Octanol-water partition coefficient (log Kow)



Trading name:

SAFETY DATA SHEET

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

TB PERMANGANATE REAGENT

Page 12 of 17

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



Page 13 of 17

Trading	g name:		TR DE	PMANGANATE	PEAGENT	rage 13 of 1	-
,		TB PERMANGANATE REAGENT TBD OT V** Data of compilation: 21 Dec 2022 Version: 6					
Product code: TBP-OT-X** Date of compilation: 2		21 Dec 2022	Version:	6			
Water-a	air No avai	information lable	n No information available	No information available	No information available	-	
l Soil-air		No information available	-				
12.5.	Results o	f PBT and vPvB ass	sessment				
	according	e substance/mixture does not contain components considered to have endocrine disrupting propertie cording to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission egulation (EU) 2018/605 at levels of 0.1% or higher.					
12.6.	Endocrin	e disrupting prope	rties				
	according	g to REACH Article	•	n Delegated regul	to have endocrine of ation (EU) 2017/2100		
12.7.	Other ad	verse effects					
	No inforr	nation available					
SECTIO	N 13. Disp	oosal consideration	ons				
13.1	Waste treatment methods						
	=						
13.1.1.	Produc	t/Packaging dispo	sal:				
		Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.					
13.1.2.	Waste o	codes/waste desig	nations according to	o Law:			
			5		ntaminated with haz	ardous substar	nces
13.1.3.	Waste treatment – relevant information:						
	No info	nformation available					
13.1.4.	Sewage	age disposal – relevant information:					
	Waste ı	Waste must not be disposed of into the sewage system.					
13.1.5.	Other o	disposal recommer	ndations:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collector authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.						



SAFETY DATA SHEET

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

Page 14 of 17

Trading name:	TB PERMANGANATE REAGENT				
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

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



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

amended by Regulation (EU) No. 2020/878 Page 15 of 17

Trading name:	TB PERMANGANATE REAGENT				
Product code:	TBP-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Further information: Packages sma	ller than or equal to 5 kg / L, not dangerous goods of Class 9.

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



Page 16 of 17

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	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
15.2	Chemical safety assessment		
	None		

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



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Page 17 of 17

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ANNEX: Exposure scenario resulting to chemical safety assessment
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