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Trading name:		MPO BUFFER					
Product code:	PBSL-OT-X**	Date of compilation:	25 June 2021	Version:	1		

SECTI	ON 1: Identification of t	:he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	MPO BUFFE	ER		
	Chemical name:	-			
	Catalogue number:	PBSL-OT-X	**		
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	in cytochemical diagnostics.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advis	uses advised against: The product is intended for use only as an <i>in vitro</i> of medical device, registered at the Agency for Medical Devices and there is no reason to use it for			
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb +385 1 2409997		
	Telephone number:				
	Telefax.:		+385 1 2	2404039	
	e-mail of competent p	erson:	msds@b	<u>piognost.hr</u>	
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard statements*:					
	Not identified as hazardous su	-				
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard	l-statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	MPO BUFFER				
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	-				
	Signal word:	-				



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	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

SECTION 3. Cor	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
-	-	-	Contains no hazardous substances	-		

4.1	Description of first aid measures			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.		
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.		
	Following ingestion:	Rinse the 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.		
	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:	Danger of gastric perforation.		
4.3	Indication of any immediate medi	cal attention and special treatment needed		



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SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media: water spray, dry powder, CO2 or alcohol resistant foam				
	Unsuitable extinguishing media: No information available				
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products: No information available				
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Do not contaminate the environment with extinguishing media.				

SECTIO	ON 6. Accidental release measu	ıres	
6.1	Personal precautions, protective	ve equipment and emergency procedures	
6.1.1.	For non-emergency personnel		
	Protective equipment:	Use personal protective equipment (see Section 8).	
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. 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:		
	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 containment 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 involved materials with water.	
6.3.3.	Other information:	Do not use incompatible materials (see Section 10).	
6.4	Reference to other sections		



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See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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.	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:	ghtly closed and upright set containers at ures ranging from +2 to +8 °C.						
	Packaging materials:	Manufactu containers	urer's original packaging. Avoid metal					
	Requirements for storage rooms and vessels:	Keep away	r from food and drink. Keep the containers sed.					
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.					
	Further information on storage conditions:	formation on storage conditions: Do not place t and do not us chemicals. Do (see Section 1)						
7.3	Specific end use(s)							
	Recommendations:	_						
	Industrial sector specific solutions:	-						

SECTIO	SECTION 8. Exposure controls/personal protection									
8.1	Control parameters									
	Substance	CAS No	•	exposure limit term values	Biological limit values					
			ppm	mg/m³						



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Trading na	me:		_		_		MPO	BUFFE	R			_	
Product co	ode:				Date of co			tion:	25 Ju	une 2021	Version:	1	
									•		·	•	
-				-		-		-		No in	formation availa	ble	
Substance r	name:	-		:									
EC No:		-	CAS No	:	-								
DNEL													
					Inc	dust	rial						
Route of		Acu	ıte		Acute			Chron	iic		Chronic		
exposure:		effect	local	effec	t systemi	С		effect lo	ocal		effect systemi	С	
Oral		-		-			-			-			
Inhalation		-		-			-			-			
Dermal		-		-			-			-			
Critical phys	sical par	rameters: s	solubility,	flamma	ability, co	rrosiv	vity:	-					
					Co	nsur	mer						
Route of		Acute Acute		Acute			Chron	iic		Chronic			
exposure:		effect local effect systemi		ic	effect local				effect systemic				
Oral		-		-			-		-				
Inhalation		-		-			-			-	-		
Dermal		-		-			-			-			
PNEC													
Environmen	ntal prot	tection tar	get			PNEC							
Fresh water	•					no information available							
Freshwater	sedime	nts				no information available							
Marine wat	er					no information available							
Marine sedi	iments					no information available							
Food chain						no information available							
Microorgan	isms in	sewage tr	eatment			no	inform	nation av	ailable	ı			
Soil (agricul	ltural)					no	inform	nation av	ailable	ı			
Air						no	inform	nation av	ailable	ı			
8.2	Exposi	ure contro	ls										
8.2.1.	Appro	priate eng	ineering	controls	5								
		ance/mixtu nt exposur				pro		e equipn			ooms. Use persc drink or smoke ir		
	Structi	ural measu ure:	ires to pr	event		In accordance with Section 7.							



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	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent ex	(posure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.				
8.2.2.	Personal protection equipment						
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.					
8.2.2.2.	Skin protection						
	Hand protection:	Protec	tive nitrile gloves, >0.11 mm thick (EN 374).				
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 340) and shoes that cover the entire foot.					
8.2.2.3.	Respiratory protection:	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present.					
8.2.2.4.	Thermal hazards:	No information available					
8.2.3.	Environmental exposure controls	·					
	Substance/mixture related measures to prevent exposure:	See Se	Section 6				
	Structural measures to prevent exposure:	Use mo	odern equipment.				
	Organisational measures to prevent exposure:	Adapt workpl	t the work process to the required working conditions of the blace.				
	Technical measures to prevent exposure:	See Section 6					

SECT	SECTION 9. Physical and chemical properties									
9.1	Information on basic physical and chemical properties									
		Value	Method							
	Physical state:	Liquid	Visual inspection							
	Colour:	Colourless	Visual inspection							
	Odour:	No information available	No information available							
	Odor threshold:	No information available	No information available							
	pH:	6,9 – 7,6	No information available							
	Melting point / freezing point;	No information available	No information available							
	Initial boiling point and boiling range:	No information available	No information available							
	Flash point:	No information available	No information available							



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2	Other information		
	Oxidising properties:	No information available	No information available
	Explosive properties:	No information available	No information available
	Viscosity:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Solubility(ies):	No information available	No information available
	Bulk density:	No information available	No information available
	Relative density:	No information available	No information available
	Vapour density:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Evaporation rate:	No information available	No information available

SECTION	ECTION 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:	No information available						
10.5	Incompatible materials:	No information available						
10.6	Hazardous decomposition products:	No information available						

SECTION 11. Toxicological information										
11.1 Informat	Information on toxicological effects									
Acute toxicity:										
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results					
Oral:	-	No information available	-	No information available	-					
Dermal:		No information available	-	No information available	-					



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				'							
Inhalation:			o information vailable	_		No informatio available			l	_	
Specific	targe	t organ toxicit	y – single expo	sure (S	TOT SE):						
	8 8 9 9 9 9 9 9 9 9 9 9	Spec	ific effects			Target	organ			Note	
Oral:	N	lo information	available		No info	rmatior	n availal	ble	-		
Dermal:	N	lo information	available		No info	rmatior	n availal	ole	-		
Inhalation:	N	lo information	available		No info	rmatior	ı availal	ble	-		
:											
Aspiration	on ha	zard:	N	o inforr	mation av	ailable.					
Irritation	and	corrosion									
		Exposur	e time	Speci	ies	Evalua	tion	Method		Note	
Skin - corrosion/irritation:		-	-			-		-	-		
Serious eye damage/irritation	1	-	-			-		-	-		
i											
Sensitiza											
Skin sensitization	:	-									
Respiratory sensi	tizatio	on: -									
Symptor	ms re		nysical, chemica	al and t	oxicologi	cal cha	racteris	tics			
Oral exposure:		No informati	on available.								
Dermal exposure	•	No informati	on available.								
Inhalation exposu	ıre:	No informati	on available.								
Eye exposure:		No informati	on available.								
Repeate	d dos	se toxicity (sub	acute, subchro	nic, chr	onic)	1					
		Dose	Exposure time	Specie	es	Method		Evaluation		Note	
Subacute oral	No avai	information lable	No information available	No inforn availa	No information available					-	
Subacute dermal	No avai	information lable	No information available	No inforn availa	nation ble	No inforn availa	nation ble	No informa availabl		-	



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			Ţ					
Subacute inhalation	No availa	information able	No information available	No information available	No inforn availa	nation ble	No information available	on -
Subchronic oral	No availa	information able	No information available	No information available	No inforn availa	nation ble	No information available	on -
Subchronic dermal	No availa	information able	No information available	No information available	No inforn availa	nation ble	No information available	on -
Subchronic inhalation	No availa	information able	No information available	No information available	No inforn availa	nation ble	No information available	on -
Chronic oral	No availa	information able	No information available	No information available	No inforn availa	nation ble	No information available	on -
Chronic dermal	No availa	information able	No information available	No information available	No inforn availa	nation ble	No information available	on -
Chronic inhalation	No availa	information able	No information available	No information available	No inforn availa	nation ble	No information	on -
	•			,			•	·
Specific	target	organ toxicit	y – repeated e	exposure (STOT	RE):			
			Specific effe	cts		Target o	rgan	Note
Subacute oral		No informa	ntion available		No information		n available	-
Subacute derma		No informa	ation available		No inf	ormatio	n available	_

	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	_
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	-

CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)				
Carcinogenicity:	Current studies on test animals did not indicate carcinogenic effects.			
Mutagenicity in vitro:	Current in vitro tests did not indicate mutagenic effects.			
Genotoxicity:	No information available.			
Mutagenicity in vivo:	Current in vivo tests did not indicate mutagenic effects.			



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	Germ cell mutagenicity:	No information available.
	Reproductive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.
	Summary of evaluation of the CMR properties:	No information available.
11.2	Practical experiences:	
	Classification observations:	No information available
	Other observations:	No information available
11.3	General notes:	
	-	

SECTION 12. Ecologi	cal informa	tion				
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	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	No information available	-
Other organisms	-	72 hours	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-



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AU	iotic de	gradation								
		Degradation h	nalf-lives		Method		Evaluation			Note
Marine wat	er No	o information	available	No ir availa	formation able		information ilable		-	
Fresh water	. No	o information	available	No ir availa	nformation able		information ilable		_	
Air No information		o information	available	No ir availa	nformation able		information ilable		-	
No information available		available	No ir availa	nformation able		information ilable		-		
Bio	odegrad	ation								
% Degrad		Time ((days)		Method		Evaluation	l		Note
No information available		No information available					No information		-	
	Jaccaiiic	ılative potenti	al							
	tanol-w	ater partition	coefficient (Evolus	tion	***************************************	Noto
Value	ctanol-w Cor	ater partition necentration	coefficient (log Ko	w) Method No informati available		Evalua No inform available		-	Note
Value	Cor No in availa	ater partition necentration	pH -	°C	Method No informati		No inform		-	Note
Value	Cor No in availa	ater partition ncentration formation able	pH (BCF)	°C	Method No informati		No inform	ation		Note
Value - Bio Value No informa	Cor No in availa	ater partition incentration incentration incentration incentration incentration incentration incentration factor incentration factor incentration incentration factor incentration incentra	pH (BCF)	°C -	Method No informati available Method formation	N	No inform available	ation		Note
Value - Value No informa available	No in availa	ater partition incentration incentration incentration factor in the special sp	pH - (BCF) ies	°C	Method No informati available Method formation	N	No inform available Evaluatio	ation	No info	Note



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Chronic toxicity on fish		le: F	PBSL-OT-X**	Date	Date of compilation: 25 Ju		25 June	2021	Version:
		sh LC ₅₀	No information available	No information available	No inform availab		No information available	-	
		EC ₅₀	No information available	No information available	information inform		No information available	-	
12.4 Mobility in soil Known or predicted distribut				ion in environm	ental compart	tments:			
	No i	nformat	ion available						
	Surfa	ace tens	ion:						
	١	/alue	°C	Concentra	tion	Method			Note
No No information available available		No information No in available availa		formation -		-			
	Adso	orption /	/ desorption	:	:				
Transp	ort	-	O coefficient ry's constant	log Kow	Evaporat	ion rate	N	1ethod	Note
		No	information	No information	n No inforn	nation	No in	formation	

Au	sorption / desorption				
Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-water	No information	on No information available	No information available	No information available	-
Water-air	No information	No information available	No information available	No information available	-
Soil-air	No information	No information available	No information available	No information available	-

	available	available	available	available	
12.5	Results of PBT and vPvB asses	ssment			
	No information available				

12.6	Other adverse effects
	No information available

SECTION	SECTION 13. Disposal considerations		
13.1	Waste treatment methods		
13.1.1.	Product/Packaging disposal:		



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	Submit for disposal to the I Protection.	egal person authorized by the Ministry of Environmental and Nature			
13.1.2.	2. Waste codes/waste designations according to Law:				
	No information available				
13.1.3.	Waste treatment – relevant	information:			
	No information available				
13.1.4.	Sewage disposal – relevant	information:			
	Waste must not be dispose	d of into the sewage system.			
13.1.5.	Other disposal recommend	ations:			
	authorized by the ministry i	uct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. Submit tors authorized by the ministry in charge. Do not dispose of in places where			
13.1.6.	Relevant Community provis	sions:			
	-				
SECTION	14 TRANSPORT INFORMA	TION			
Transporting/shipment by road (ADR)					
UN numb	per:	Not subject to transport regulations			
UN proper shipping name:		-			
Transport	t hazard class(es):	-			
Packing g	group:	-			
Environm	entally hazardous:	-			
Special p	recautions for user:	-			
-	Transporting/shipment by rai	il (RID)			
UN number:		Not subject to transport regulations			
UN proper shipping name:		-			
Transport hazard class(es):		-			
Packing group:		-			
Environm	entally hazardous:	-			
	recautions for user:	-			
	nland waterway transport (A	DN)			

Not subject to transport regulations



Special precautions for user:

Further information:

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			ı	,	·	·	
UN proper shippin	g name:	-					
Transport hazard c	class(es):	-					
Packing group:		-					
Environmentally ha	azardous:	-					
Special precaution	s for user:	-					
Transport	ing/shipment by sea (II	MDG)				
UN number:		No	t subject to transport regu	lations			
UN proper shippin	g name:	-					
Transport hazard class(es):			-				
Packing group:							
Environmentally ha	azardous:	-					
Special precaution	s for user:	-					
Transport in bulk of MARPOL 73/78	according to Annex II and the IBC code:	-					
Transport	ing/shipment by air (IC	:AO-	ΓΙ/IATA-DGR)				
UN number:		No	t subject to transport regu	lations			
UN proper shipping name:		-					
Transport hazard class(es):							
Packing group:		-					
Environmentally hazardous:							

SECTION	SECTION 15. Regulatory information			
15.1	Safety, health and environ	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations			
	Authorization and/or restri	ctions of use		
	Authorizations:	-		
	Restrictions:	-		



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	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	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 assessment	t
	None	

SECTIO	N 16. Other information		
16.1	Indication of changes:	-	
		PBT	Stable, bioaccumulative and toxic
		vPvB	Strongly stable and strongly bioaccumulative.
16.2	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%
		LC ₅₀	Lethal concentration, 50%
		TCOJ	Specific target organ toxicity - single exposure
16.3.	Key literature references and source of data:	-	
16.4. Classification and procedure u 1272/2008 (CLP)		ed to derive the	classification for mixture according to Regulation (EC)
Classification		Classification pro	cedure
_	-	-	
16.5.	Relevant H statements (numbe	r and full text)	
	H:		
16.6.	Training advice: -		



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Trading name:		MPO BUFFE	R	_	
Product code:	PBSL-OT-X**	Date of compilation:	25 June 2021	Version:	1

			** "X" in the product code marks different volumes (different packagings of the product)
16.	7.	Further information:	We are not responsible for consequences in case of failure to comply with
			instructions for use or improper use of the product described in this
			material safety data sheet.

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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Trading name:	MPO SUBSTRATE			-	
Product code:	4K1N-OT-X**	Date of compilation:	25 June 2021	Version:	1

SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	MPO SUBS	TRATE		
	Chemical name:	-	-		
	Catalogue number:	4K1N-OT-X	* *		
1.2	Relevant identified uses of the substance or mixture and uses advised against			nixture and uses advised against	
	Uses:		For use	in cytochemical diagnostics.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997 +385 1 2404039 msds@biognost.hr		
	Telefax.:				
	e-mail of competent p	erson:			
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+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 Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard statements*:					
	Flam. Liq. 2 H225					
	Acute Tox. 4 (Oral) H302					
	Acute Tox. 4 (Dermal) H312					
	Acute Tox. 4 (Inhalation)	H332				
	STOT SE 1	H370				
	Aquatic Chronic 3	H412				
2.1.2.	Additional information					
	-					
*For fu	ıll text of Hazard- and EU Hazard-statements: se	ee SECTION 16				
2.2	Label elements					



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	Product identification:	MPO SUBSTRATE
	Identification number:	-
	Authorization number:	-
	Hazard pictograms:	GHS08
	Signal word:	Danger
	Hazard statements:	 H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H370 Causes damage to organs. H412 Harmful to aquatic life with long lasting effects.
	Precautionary statements:	 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

S	SECTION 3. Composition/information on ingredients							
	CAS/ EC/ ndex number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			



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9002-92-0/ 500-002-6/ -	-	<3%	Dodecan-1-ol, ethoxylated	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
111-46-6/ 203-872-2/ 603-140-00-6	01-2119457857-21- XXXX	>50%	diethylene glycol	Acute Tox. 4; H302
67-56-1/ 200-659-6/ 603-001-00-X		>10% - <20%	methanol	Flam. Liq. 2; H225 Acute Tox. 3 (Oral); H301 Acute Tox. 3 (Dermal); H311 Acute Tox. 3 (Inhalation); H331 STOT SE 1; H370

4.1	Description of first aid measures			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.		
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptom 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.		
	Self-protection of the first aide	er: -		
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:	Danger of gastric perforation.		
4.3	Indication of any immediate m	edical attention and special treatment needed		



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SECTIO	CTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media: water spray, dry powder, CO2 or alcohol resistant foam				
	Unsuitable extinguishing media: No information available				
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products: No information available				
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.				

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 c (see Section 8).	ase 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 cont	ainment 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 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 of	on safe handling.		
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal information.			



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SECTI	ON 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat.			
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2	Conditions for safe storage, including any incor	mpatibilities				
	Technical measures and storage conditions:		ghtly closed and upright set containers at res ranging from +2 to +8 °C.			
	Packaging materials:	Manufactu containers	urer's original packaging. Avoid metal			
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.			
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper i.			
	Further information on storage conditions:	and do no	ace the unused material in the storage room t use empty containers for storing other Do not store with incompatible materials on 10).			
7.3	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				

SECTION	SECTION 8. Exposure controls/personal protection							
8.1	Control parameters							
Substance		CAS No	•	exposure limit t term values	Biological limit values			
			ppm	mg/m³				
-		-	-	-	No information available			
Substand	ce name: -							



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										Page 6 01 17	
Trading na	ame:					MPO S	UBS	TRATE			
Product co	ode:	4K1N-0	T-X**		Date o	f compila	ition:	on: 25 June 2021		Version:	1
							1				
EC No:		-	CAS No	:	-						
DNEL											
					Ind	lustrial			ı		
Route of		Acu	ıte	Α	Acute			ronic		Chronic	
exposure:		effect	local	effect	systemic	:	effe	ct local		effect systemic	
Oral		-		-		-			-		
Inhalation		-		-		-			-		
Dermal		-		-		-	-		-		
Critical phy	sical par	rameters: s	solubility,	flamma	bility, cori	rosivity:		-			
		1			Cor	nsumer					
Route of		Acı			Acute			ronic		Chronic	
exposure:		effect	local	effect	t systemic		effe	ct local		effect systemic	
Oral		-		-		-		-			
Inhalation		-		-							
Dermal		-		-		-			-		
PNEC						DNIEG					
Environmer	•	tection tar	get			PNEC	4:				
Fresh water						no information available no information available					
Freshwater		nts				no information available					
Marine wat											
Food chain						no information available no information available					
Microorgan		sewage tr	eatment								
Soil (agricu		sewage ti	eatment			no information available no information available					
Air	- Italiai)					no information available					
All						110 11110111	latioi	i available			
8.2	Exposi	ure contro	ls								
8.2.1.	Appro	priate eng	ineering	controls							
		ance/mixtu nt exposur				Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.					
	Structi exposi	ural measu ure:	ires to pr	event		In accordance with Section 7.					
	Organ exposi	isational n ure:	neasures	to preve	ent	Organization of work in order to reduce other worker's influence during work process.				.'s	



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	Technical measures to prevent ex	Secure proper workspace ventilation in order to ke concentration levels in air below permitted levels. Stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	levels	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:	Protec	tive nitrile gloves, >0.11 mm thick (EN 374).		
	Other skin protection:		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:	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present.			
8.2.2.4.	Thermal hazards:	No information available			
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	See Section 6		
	Structural measures to prevent exposure:	Use m	modern equipment.		
	Organisational measures to prevent exposure:	•	dapt the work process to the required working conditions of the orkplace.		
	Technical measures to prevent exposure:	See Section 6			

SECT	ON 9. Physical and chemical prope	erties					
9.1	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	Liquid	Visual inspection				
	Colour:	Colourless	Visual inspection				
	Odour:	Alcoholic odour	No information available				
	Odor threshold:	No information available	No information available				
	pH:	No information available	No information available				
	Melting point / freezing point;	No information available	No information available				
	Initial boiling point and boiling range:	No information available	No information available				
	Flash point:	No information available	No information available				
	Evaporation rate:	No information available	No information available				
	Flammability (solid, gas):	No information available	No information available				



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	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
	Partition coefficient: n- octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	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:	No information available				
10.5	Incompatible materials:	No information available				
10.6	Hazardous decomposition products:	No information available				

11.1 Info	ormation on toxicological effects							
Acı	ıte toxicity:							
Route of exposure:	Method	Species	Dose LD $_{50}$ /LC $_{50}$ or ATE $_{mix}$	Exposure time	Results			
Oral:	-	No information available	-	No information available	-			
Dermal:	-	No information available	-	No information available	-			
Inhalation:	-	No information available	-	No information available	-			



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				·		
Specific	target organ toxicit	y – single expo	osure (STOT SE)):		
	Spec	ific effects		Target organ	1	Note
Oral:	No information	available	No information available			
Dermal:	No information	available	No inf	ormation availa	able -	
Inhalation:	No information	available	No inf	ormation availa	able -	
Aspiration	on hazard:	٨	lo information a	available.		
Irritation	n and corrosion					
;	Exposur	e time	Species	Evaluation	Method	Note
Skin	-	_		-		
corrosion/irritation	on:					
Serious eye damage/irritation	_	-		-		
damage/iiiitatioi	·					
Sensitiza	ation					
Skin sensitization	ı:					
Respiratory sensi	tization: -					
	:					
Sympton	ms related to the pl	nysical, chemic	al and toxicolo	gical characteri	stics	
Oral exposure:	No informat	on available.				
Dermal exposure	: No informat	on available.				
Inhalation exposu	ure: No informat	on available.				
Eye exposure:	No informat	on available.				
	·					
Repeate	d dose toxicity (sub	acute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	n -
Subacute dermal	No information available	No information available	No information available	No information available	No information available	n -
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	n -



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Subchronic ora	l No availa	information able	No information available	No information available	No information available	No information available	on	-	
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	on	-	
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	on	-	
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	on	-	
Chronic derma	No availa	information able	No information available	No information available	No information available	No information available	on	-	
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	on	-	
Specif	ic target	organ toxicit	· · · · · · · · · · · · · · · · · · ·	xposure (STOT			0 0 0 0		
Specific effect				ts	Target o			Note	
Subacute oral			ition available		No information		-		
Subacute derm			ition available		No information		-		
Subacute inhala			tion available		No information available		-		
Subchronic ora			tion available		No information available		-		
Subchronic der			tion available		No information available		-		
	alation	_	ition available		No information available		-		
Chronic dermal			ition available		No information available - No information available -				
Chronic inhalat			ition available		No information		_		
- Chilothic Illitalat	1011	INO IIIIOIIII	ition available		INO IIIIOIIIIaliOi	Tavallable			
CMR 6	effects (c	arcinogenicity	y; mutagenicity	/; reproductive	toxicity)				
Carcin	ogenicit	y:		Current sti	udies on test ani	mals did not	indi	cate	
Mutag	enicity i	n vitro:		Current in	vitro tests did no	ot indicate n	nutag	genic effects.	
Genot	oxicity:			No inform	ation available.				
Mutag	enicity i	n vivo:		Current in	Current in vivo tests did not indicate mutagenic effects.				
Germ	cell muta	agenicity:		No inform	ation available.				
D	ductive t	·ovicity:		No toxicity on reproductive organs was determined in reproductive organs.					



Abiotic degradation

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	Summary of evaluation of the CMR					
	properties:	No information available.				
11.2	Practical experiences:					
	Classification observations:	No information available				
	Other observations:	No information available				
11.3	General notes:					
	-					

SECTION 12. Ecologic	cai intorma	tion				
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	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	No information available	-
Other organisms	-	72 hours	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
			_	_	_	_



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	С	Degradation	half-li	ves	N	1ethod	Evaluatio	n		Note
Marine water		information			No info	ormation lle	No information available			
Fresh water	No	information	availa	ble			No information available			
Air	No	information	availa	ble	No info	ormation lle	No information available	n -		
Soil	No	lo information available		No info	ormation lle	No information available	n _			
Bioc	legrada	 tion								
% Degrada			(days))	N	1ethod	Evaluatio	n		Note
No information			inform		No info	ormation ble	No information available	n -		
		ative potent		cient (log Kow)				
Value		centration	pl		°C	Method	Evalu	ation		Note
-	No info	ormation ble	_	-	No information available		on No information available		——————————————————————————————————————	
	oncentr	ration factor						-		
Value		Spec				Method	Evaluati			Note
No informati available		No i available	nform	ation	No information available		No information available		No information available	
CI										
Cnrc	Juic eco	otoxicity		Evn	ocuro					
Va	lue	Do	ose		osure ime	Species	Method	Evalua	tion	Note
Chronic toxic	ity on fi	ish LC ₅₀		No infori availa	mation able	No information available	No information available	No informa available		-
						\$. \$		



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											rage 13 of 1	1
Trading	g nam	ne:				M	PO SUE	BSTRA	TE			
Produc	t cod	e: 4	K1N-OT-X**		Date o	of cor	npilatio	on:	25 June	e 2021	Version:	1
crustace	ea (<i>Da</i>	ıphnia)		informa availab		inforn availa	nation ble	inform availab		information available	n	
12.4	N 4 - I-	::::::::::::::::::::::::::::::::::::::	-:1									
12.4		oility in s		•	• • • • • • • • • • • • • • • • • • • •							
			edicted distributi	on in en	vironme	ental C	omparti	nents.				
			ion available									
		ace tens	1									
		/alue	°C	Cor	ncentrati	ion		Metho	od		Note	
	No infor avail	rmation able	No information available	No ir availa	nformati able	on	No info	ormatio Ile	'n	-		
	Δdsc	orntion /	desorption									
	, rasc	•	coefficient									
Transpo	ort	-	ry's constant	log Kow E		Ev	Evaporation rate Met		1ethod	hod Note		
Soil-wa	ter	No availab	information e				o information No inform vailable available			-		
Water-a	air	No availabl	information e			o information No information vailable		formation ble	-			
Soil-air		No availabl	information e	No info	ormatior le		o inform ailable	ation	No in availa	formation ble	-	
12.5	Resu	ılts of PE	BT and vPvB asses	ssment								
	No i	nformat	ion available									
12.6	Othe	er advers	se effects									
	No i	nformat	ion available									
SECTIO	N 13.	Dispos	al consideration	S								
13.1	Wa	aste trea	tment methods									
13.1.1.	Pro	oduct/Pa	ackaging disposa	l:								
		bmit for	disposal to the l	egal pers	son auth	orize	d by the	Ministr	ry of Env	vironmental	and Nature	
	-											
13.1.2.	Wa	aste cod	es/waste designa	ntions ac	cording	to Lav	v:					



No information available

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13.1.3.	Waste treatment – releva	nt information:
	No information available	
13.1.4.	Sewage disposal – releva	nt information:
	Waste must not be dispo	sed of into the sewage system.
13.1.5.	Other disposal recommen	ndations:
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community pro	visions:
	-	
SECTION	N 14 TRANSPORT INFORM	IATION
	Transporting/shipment by	road (ADR)
UN num	ber:	1992
UN prop	er shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transpor	rt hazard class(es):	3 (6.1)
Packing		
	nentally hazardous:	-
	precautions for user:	-
<u>i</u>	Transporting/shipment by	
UN num		1992
UN prop	er shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
	rt hazard class(es):	3 (6.1)
Packing		III
	nentally hazardous:	-
	precautions for user:	-
	Inland waterway transport	
UN num	ber:	1992
UN prop	er shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transpor	rt hazard class(es):	3 (6.1)
Packing	group:	III
Environn	nentally hazardous:	-



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Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transport hazard class(es):	3 (6.1)
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transport hazard class(es):	3 (6.1)
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTION	CTION 15. Regulatory information						
15.1	Safety, health and envir	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or re	estrictions of use					
	Authorizations:	-					
	Restrictions:	-					



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Trading name:	MPO SUBSTRATE					
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	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 199 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	nt
	None	

SECTIO	N 16. Other information		
16.1	Indication of changes:	-	
		PBT	Stable, bioaccumulative and toxic
		vPvB	Strongly stable and strongly bioaccumulative.
16.2	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%
		LC ₅₀	Lethal concentration, 50%
		TCOJ	Specific target organ toxicity - single exposure
16.3.	Key literature references and source of data:	-	
16.4.	Classification and procedure us 1272/2008 (CLP)	sed to derive the	classification for mixture according to Regulation (EC)
Classification		Classification procedure	
_	_	_	
16.5.	Relevant H statements (number and full text)		



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Trading name:	MPO SUBSTRATE					
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		H225	Highly flammable liquid and vapour.		
		H301	Toxic if swallowed.		
			Harmful if swallowed.		
			Toxic in contact with skin.		
		H312	Harmful in contact with skin.		
		H319	Causes serious eye irritation.		
	H: H331 H332 H370 H400		Toxic if inhaled.		
			Harmful if inhaled.		
			Causes damage to organs.		
			Very toxic to aquatic life.		
	H410		Very toxic to aquatic life with long lasting effects.		
		H412	Harmful to aquatic life with long lasting effects.		
16.6.	Trai	ning advice:	-		
			** "X" in the product code marks different volumes (different packagings of		
467	Further information:		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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Trading name:	HYDROGEN PEROXIDE, SOLUTION					
Product code:	VPO-OT-X**	Date of compilation:	25 June 2021	Version:	1	

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking			
1.1	Product identifier	Product identifier					
	Trading name:	HYDROGEN	I PEROXIC	E, SOLUTION			
	Chemical name:	-	-				
	Catalogue number:	VPO-OT-X*	*				
1.2	Relevant identified use	es of the subst	tance or n	nixture and uses advised against			
	Uses:		For use	in cytochemical diagnostics.			
	Uses advised against:		Only the	e identified uses are advised.			
	Reason why uses advi	sed against:	duct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes.				
1.3	Details of the supplier	of the safety	data shee	t			
	Supplier:		BioGnos	t Ltd.			
	Address:		Medjugo	orska 59, Zagreb			
	Telephone number:		+385 1 2	2409997			
	Telefax.:		+385 1 2	2404039			
	e-mail of competent p	erson:	msds@b	<u>piognost.hr</u>			
	National contact:		-				
1.4	Emergency telephone	number					
	National Protection ar	nd Rescue Dire	ectorate:	112			
	Medical information:	dical information:		+385 1 2348 342			
	Other information:			-			

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Re	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and cate	egory code:	Hazard statements*:			
	Not identified as hazardous s	substance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazar	d-statements: see S	SECTION 16			
2.2	Label elements					
	Product identification:	HYDROGEN PE	roxide, solution			
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	-				
	Signal word:	-				



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Trading name:	HYDROGEN PEROXIDE, SOLUTION					
Product code:	VPO-OT-X**	Date of compilation:	25 June 2021	Version:	1	

	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
7722-84-1/ 231-765-0/ 008-003-00-9	-	<1%	hydrogen peroxide solution	Ox. Liq. 1; H271 Acute Tox. 4 (Oral); H302 Acute Tox. 4 (Inhalation); H332 Skin Corr. 1A; H314

SECTI	SECTION 4. First aid measures				
4.1	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			
	Following ingestion:	Rinse the 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.			
	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.			



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Trading name:		HYDROGEN PEROXIDE, SOLUTION			
Product code:	VPO-OT-X**	Date of compilation:	25 June 2021	Version:	1

	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following ingestion:	Danger of gastric perforation.
4.3	Indication of any immediate medi	cal attention and special treatment needed
	-	

SECTION 5. Firefighting measures			
5.1	Extinguishing media		
	Suitable extinguishing media: water	er spray, dry powder, CO2 or alcohol resistant foam	
	Unsuitable extinguishing media: No i	nformation available	
5.2	Special hazards arising from the substance or mixture		
	Hazardous combustion products: No i	nformation available	
5.3	Advice for firefighters		
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.		
5.4	Additional information		
	Do not contaminate the environment with extinguishing media.		

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:			
	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 containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		



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Trading name:	HYDROGEN PEROXIDE, SOLUTION				
Product code:	VPO-OT-X**	Date of compilation:	25 June 2021	Version:	1

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 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 dispos	sal information.			

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 incon	npatibilities		
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers at temperatures ranging from +2 to +8 °C.		
	Packaging materials:	Manufacti containers	urer's original packaging. Avoid metal s.	
	Requirements for storage rooms and vessels:	Keep awa	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 drain that directly leads into sewage system. Secure proper ventilation.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).		
7.3	Specific end use(s)			
	Recommendations:	_		



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Trading name:		HYDROGEN PEROXID	E, SOLUTION		
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Industria	al sector specific solutions:	-			

		_					
SECTION 8. Expos		ols/perso	nal protec	tion			
8.1 Control parameters Substance		CA			cupational exposure limit alues/short term values		Biological limit values
				bt	pm	mg/m³	-
-	-				-	-	No information available
Substance name:	-						
EC No:	-	CAS No):				
DNEL	DNEL						
				Indu	ustrial		
Route of	Acu		Acut			Chronic	Chronic
exposure:	effect	local	effect sys	stemic		effect local	effect systemic
Oral	Oral			-		-	
Inhalation	-		-		-		-
Dermal	-		-		-	· · · · · · · · · · · · · · · · · · ·	-
Critical physical par	Critical physical parameters: solubility, flammability, corrosivity:						
				Cons	sumer		
Route of	Acı		Acut			Chronic	Chronic
exposure:	effect	local	effect sys	stemic	mic effect local effect system		effect systemic
Oral	-		-		-		-
Inhalation	-		-				-
Dermal	-		-				-
PNEC							
Environmental prot	tection tar	get			PNEC		
Fresh water				-	no information available		
Freshwater sedime	nts			n	no information available		
Marine water	Marine water			n	no information available		
Marine sediments			n	no information available			
Food chain			n	no information available			
Microorganisms in sewage treatment			n	no information available			
Soil (agricultural)			n	no information available			
Air				n	no inform	nation available	



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8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measure prevent exposure during identifie		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 preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	posure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
	Hand protection:	Protect	tive nitrile gloves, >0.11 mm thick (EN 374).		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) ong sleeves (EN 340) and shoes that cover the entire foot.		
8.2.2.3.	Respiratory protection:		quired under normal conditions of use. Use suitable story protective device when high concentrations are st.		
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 modern equipment.			
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.		
	Technical measures to prevent exposure:	See Se	ction 6		

SECT	SECTION 9. Physical and chemical properties				
9.1	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	Liquid	Visual inspection		
	Colour:	Colourless	Visual inspection		
	Odour:	No information available	No information available		



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	Odor threshold:	No information available	No information available
	рН:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
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:	No information available	
10.5	Incompatible materials:	No information available	
10.6	Hazardous decomposition products:	No information available	

SECTION	SECTION 11. Toxicological information		
11.1	Information on toxicological effects		
	Acute toxicity:		



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Trading name:			HYDRO	GEN PER	OXIDE,	SOLUT	ION			
Product code:	VPO-OT-X*	*	Date of	f compilati	ion:	25 June	2021	Ver	sion:	1
Route of exposure:	Method	Species		Dose LD ₅₀ /I ATE _{mi}		Exp	osure time	ne Results		its
Oral:	-	No informati available	on	-	-		No information available		-	
Dermal:	-	No informati available	on	-		No info	ormation le		-	
Inhalation:	-	No informati available	on	-		No info	ormation le		-	
Specific t	arget organ to	xicity – single e	xposure	(STOT SE):						
	9	Specific effects			Target	organ			Note	
Oral:		tion available				available				
Dermal:		ition available				n available -				
Inhalation: No information available No information available -										
Aspiratio	n hazard:		No info	ormation av	zilahla					
Aspiration	ii iidzara.		TVO IIII	ormation av	valiable.					
Irritation	and corrosion									
	Exp	osure time	Sp	ecies	Evaluat	ion N	∕lethod		Note	
Skin	-		-		_	-		_		
corrosion/irritation	า:									
Serious eye damage/irritation	-		-		-	-		-		
	!			!			1			
Sensitizat	tion									
Skin sensitization:	-									
Respiratory sensiti	zation: -									
Symptom		ne physical, cher		d toxicolog	ical char	acteristic	S			
Oral exposure:		mation available								
Dermal exposure:		mation available								
Inhalation exposu		mation available								
Eye exposure:	No infor	mation available	e.							
Reneated	I dose tovicity	(subacute, subc	hronic (chronic)						
Переалес	i dose toxicity	Exposure								
	Dose	time	Spe	ecies	Metho	od	Evaluatio	n	Note	



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Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

	Specific effects	Target organ	Note
Subacute oral	No information available	No information available -	
Subacute dermal	No information available	No information available -	
Subacute inhalation	No information available	No information available -	
Subchronic oral	No information available	No information available -	
Subchronic dermal	No information available	No information available -	
Subchronic inhalation	No information available	No information available -	
Chronic oral	No information available	No information available -	
Chronic dermal	No information available	No information available -	
Chronic inhalation	No information available	No information available -	

CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)



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	Carcinogenicity:	Current studies on test animals did not indicate carcinogenic effects.			
	Mutagenicity in vitro:	Current in vitro tests did not indicate mutagenic effects.			
	Genotoxicity:	No information available.			
	Mutagenicity in vivo:	Current in vivo tests did not indicate mutagenic effects.			
	Germ cell mutagenicity:	No information available.			
	Reproductive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.			
	Summary of evaluation of the CMR properties:	No information available.			
11.2	Practical experiences:				
	Classification observations:	No information available			
	Other observations:	No information available			
11.3	General notes:				
	-				

SECTION 12. Ecologic	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	e Exposure 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	8 days	No information available	No information available	No information available	-
Other organisms	-	72 hours	-	-	-	-
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	-



Trading nam	e:			Η\	DROGEN PER	ROXID	E, SOLU	TION	Ψ	
Product code	e: \	/PO-OT-X**		Da	ate of compilat	ion:	25 Jur	ne 2021	Version:	
Crustacea:		EC ₅₀	48 hours		No information	No inforn availa	nation ble	No informatic available	on -	
Algae/aquatic	plants	IC ₅₀	72 hours		No information available		nation ble	No informatio available	on -	
Other organis	ms	-	-	_	,			-		
12.2 Persi	stence	and degrada	hility							
		adation	Onity							
		egradation h	alf-lives		Method	I	Evaluatio	n	Note	
Marine water		information a			information lable	No in	formatior ble	n _		
Fresh water	resh water No information		available		information lable	No information available		n _		
Air No information availal		available		information lable	No in availa	formatior ble	n _			
Soil	al I Na intermation available			information lable	No in availa	formatior ble	n -			
Biode	egradat	ion								
% Degradat		Time (days)		Method	l	Evaluatio	n	Note	
No informatio available			formation		information ilable	No in availa	formation ble	n _		
		ative potentia		loa K	ow)					
Value		entration	рН	°C	Method		Evalua	ation	Note	
_	No info availab	ormation le	-	-	No information				-	
Bioco	oncentra	ation factor (BCF)							
Value		Speci			Method		Evaluation		Note	
No informatio available		No in available	formation		nformation lable		information lable		o information vailable	



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Trading	g nan	ne:				HYDR	ROGE	N PERC	OXIDE,	SOLUT	ION		<u></u>		
Produc	t cod	le: '	VPO-C	DT-X**		Date	of co	mpilatio	on:	25 June	202	21	Version	•	1
	Chro	nic eco	toxicit	V											
	<u> </u>		toxicit		Ехро	sure									
	Val	ue		Dose	tin		Spe	ecies	Met	hod	Eva	luation		Note	
Chronic	tovio	itu on fi	a la	1.0	No	1		mation	No inform		No	mation			
Chronic	Chronic toxicity on fish LC ₅₀		LC ₅₀		information info available available			availab		avail		-			
Chronic	ronic toxicity on		No		No		No		No						
crustace		-		EC ₅₀	inform availab		inforr availa	mation	inform availab		infor avail	mation	-		
					availat	ne _[avaiic	ibie	availar)ie	avaii	аыс			
12.4	Mob	oility in s	soil												
	Known or predicted distribution in environmental compartments:														
	No information available														
	Surf	ace tens	sion:	on:											
	١	/alue		°C	ncentrat	tion		Metho	od			Note			
	No	rmation	No inf	ormation	No information No in			No inf	ormatio	n		_			
	avail			ailable	available availa		availab	ble							
	Adso	orption		•											
Transpo	ort	=		ficient onstant	log	J Kow	Εν	/aporati	on rate	V	1ethc	od	N	lote	
Soil-wa	ter	No availab		formation	No infavailab	ormatio ole		o inform ailable	ation	No inf availat		ation	-		
Water-a	air	No availab		formation	No inf	ormatio ole		o inform	ation	No inf		ation	-		
Soil-air		No availab		formation	No inf	ormatio		o inform	ation	No inf	-	ation	-		
		avallab	ne		avallat	ле	av	allable		avallal	oie				
12.5	Resu	ılts of P	BT and	l vPvB asses	sment										
		nformat													
	i														
12.6	Othe	er adver	se effe	ects											
	No i	nformat	tion av	ailable											



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Product code:	VPO-OT-X**	Date of compilation:	25 June 2021	Version:	1

SECTION	13. Disposal considerati	ions				
13.1	Waste treatment method	ds				
13.1.1.	Product/Packaging dispo	osal:				
***************************************	Submit for disposal to the Protection.	ne legal person authorized by the Ministry of Environmental and Nature				
13.1.2.	Waste codes/waste design	gnations according to Law:				
	No information available					
13.1.3.	Waste treatment – releva	ant information:				
	No information available					
13.1.4.	Sewage disposal – relevant information:					
Waste must not be disposed of into the sewage system.						
13.1.5.	Other disposal recomme	endations:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collect authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Sub the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places whigh ignition may occur.					
13.1.6.	Relevant Community pro	ovisions:				
	-					
SECTION	14 TRANSPORT INFORM	MATION				
Т	ransporting/shipment by	road (ADR)				
UN numb	er:	Not subject to transport regulations				
UN prope	r shipping name:	-				
Transport	hazard class(es):	-				
Packing g	roup:	-				
Environme	entally hazardous:	-				
Special pr	ecautions for user:	-				
Т	ransporting/shipment by	rail (RID)				
UN numb	er:	Not subject to transport regulations				
UN prope	r shipping name:	-				
Transport	hazard class(es):	-				



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Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC.	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTI	ECTION 15. Regulatory information		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations		
	Authorization and/or restrictions of use		
	Authorizations:	-	
	Restrictions:	-	



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	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-quideline)	
	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	SECTION 16. Other information		
16.1	Indication of changes:	-	
		PBT	Stable, bioaccumulative and toxic
		vPvB	Strongly stable and strongly bioaccumulative.
16.2	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%
		LC ₅₀	Lethal concentration, 50%
		TCOJ	Specific target organ toxicity - single exposure
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 pro	cedure
_	-		
16.5.	Relevant H statements (number and full text)		



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	H271 H: H302 H314 H332	May cause fire or explosion; strong oxidiser. Harmful if swallowed. Causes severe skin burns and eye damage. Harmful if inhaled.
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.

ANNEX: Exposure scenario resulting to chemical safety assessment
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