

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

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Trading name:		BUFFER SOLUTION, pH 7.2					
Product code:	PUF72-OT-X**	Date of compilation:	22 Dec 2022	Version:	4		

SECTI	ON 1: Identification of	the substance	e/mixture	e and of the company/undertaking
1.1	Product identifier			
	Trading name:	BUFFER SO	LUTION, p	H 7.2
	Chemical name:	-		
	Catalogue number:	PUF72-OT-X		
1.2	Relevant identified uses of the substance or mixture and uses advised against			
	Uses:		Buffer so	olution for use in hematology, 6 mM.
	Uses advised against:		Only the	e identified uses are advised.
	Reason why uses advis			duct is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes.
1.3	Details of the supplier	of the safety	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	piognost.hr
	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 categ	ory code:	Hazard statements*:		
	Not identified as hazardous su	bstance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard	-statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	BUFFER SOLUTI	ON, pH 7.2		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	erties:
	No known endocrine disrupti	ng properties
	Results of PBT and vPvB ass PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

SECTION 3. 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.	-		

SECTI	ON 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 ef	fects, both acute and delayed
	Following inhalation:	No information available.
	Following skin contact:	No information available.
	Following eye contact:	No information available.



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		Following ingestion:	No information available.
	4.3	Indication of any immediate media	cal attention and special treatment needed
Ī		-	

SECTI	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO_2 Large fire - water spray 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 environm	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 a (see Section 8).	case of inadequate ventilation use adequate airways protective equipment				
6.2	Environmental precautions:					
	Do not dispose of in sewage, or Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.				
6.3	Methods and material for con-	tainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.				
6.3.2.	Cleaning up:	Sawdust, sand, mineral adsorbents.				
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 about secure handling.

See Section 8 for information about personal protective equipment.

See Section 13 for information about containment.

SECTIO	ON 7. Handling and storage						
7.1	Precautions for safe handling						
7.1.1.	Protection measures	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms.				
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.				
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.				
	Other measures:		-				
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:	Keep in tightly closed and upright set containers in well ventilated storage roomsat temperatures ranging from 15 to 25 °C.					
	Packaging materials:	Manufactu	curer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away	y from food and drink. Keep the containers sed.				
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain sly leads into sewage system. Secure proper n.				
	Further information on storage conditions:	Do not place the unused material in the storage roc 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:	_					

SECTI	TION 8. Exposure controls/personal protection										
8.1	Control parameters	Control parameters									
Substance		CAS No	Occupational values/short	exposure limit term values	Biological limit values						
			ppm mg/m³								



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										T		
-				-		-	-		-		-	
Substance name:		-						Π				
EC No:		-	CAS No):	-							
DNEL												
						Indu	strial					
Route of		Acu			Acute			Chro			Chronic	
exposure:		effect	local	effec	t syste	mic		effect	local		effect systemic	
Oral	-			-			-			-		
Inhalation	-			-			-			-		
Dermal	-			-			-			-		
Critical physical pa	arar	neters: s	olubility,	flamma	ability,	corro	sivity:	-				
						Cons	umer					
Route of				Acute		Chronic			Chronic			
exposure:	effect local effect systemic		mic	effect local			effect systemic					
Oral		-		-			-		-	-		
Inhalation		-		-			-		-	-		
Dermal		-		-			-					
PNEC												
Environmental pro	otec	tion tar	get			P	NEC					
Fresh water						N	o inforn	nation a	availabl	e		
Freshwater sedim	ents	5				N	o inforn	nation a	availabl	e		
Marine water						N	o inforn	nation a	availabl	e		
Marine sediments						N	o inforn	nation a	availabl	e		
Food chain						N	No information available					
Microorganisms in	n se	wage tre	eatment			N	o inforn	nation a	availabl	e		
Soil (agricultural)						N	No information available					
Air						N	o inforn	nation a	availabl	е		
8.2 Expos	sure	control	S									
			ineering	controls	5							
Subst	tanc	ce/mixtu	re related	d meası	ıres to	р	•	e equip			ooms. Use person Irink or smoke in t	



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	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 low levels of concentration in air; protective gas mask that covers t entire face in case of higher levels of concentration in air.				
8.2.2.2.	Skin protection					
	Hand protection:	Protec	ective 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:		adequate ventilation to the premises where the product is and/or handled.			
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	ection 6			
	Structural measures to prevent exposure:	Use m	odern 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			

SECTI	SECTION 9. Physical and chemical properties									
9.1	Information on basic physical and chemical properties									
		Value	Method							
	Physical state:	liquid	No information available							
	Color:	colourless	No information available							
	Odour/odour threshold:	no odor/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							



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	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
	рН:	7.2	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:	No information available					
10.2	Chemical stability:	No information available					
10.3	Possibility of hazardous reactions:	No information available					
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 Information on hazard classes as defined in Regulation (EC) No 1272/2008										
Acute to	oxicity:									
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results					
Oral:	-	No information available	No information available	No information available	_					
Dermal:	-	No information available	No information available	No information available	_					
Inhalation:	-	No information available	No information available	No information available	_					



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	,		:		:			:	1
		Spec	ific effects		Target o	organ		Note	
Oral:	١	No information available		No in	formation a	available	-		
Dermal:	١	lo information	available	No in	formation a	available	-		
Inhalation:	١	lo information	available	No in	formation a	available	-		
Aspirat	ion ha	zard:		No information	available.				
Irritatio	n and	corrosion							
		Exposur	e time	Species	Evaluati	on M	lethod	Note	
Skin		-		-	-	_		-	
corrosion/irritat	ion:								
Serious eye damage/irritation	on	-		-	-	-		-	
- aumage, mitatio									
Sensitiz	zation								
Skin sensitizatio	n:	-							
Respiratory sens	sitizatio	on: -							
Sympto	oms re	lated to the pl	nysical, chemi	cal and toxicolo	gical chara	acteristics			
Oral exposure:		No informati	on available						
Dermal exposur	e:	No informati	on available						
Inhalation expo	sure:	No informati	on available						
Eye exposure:		No informati	on available						
Repeat	ed dos	se toxicity (sub	acute, subch	ronic, chronic)					
		Dose	Exposure time	Species	Method	d	Evaluatior	n Note	
Subacute oral	No avai	information ilable	No information available	No information available	No informa availab	ation	No informatio available	on -	
Subacute dermal	No avai	information ilable	No information available	No information available	No informa availab	ation	No informatio available	on -	

No

information

available

No information

available

Subacute

inhalation

No

information

available

No

information

available

No

information

available



Reproductive toxicity:

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Product code.	PU	F72-U1-X***	Da	ate of compila	tion.	22 De	C 2022	VE	ersion. ²
Subchronic oral	No availa	information able	No information available	No information available	No infor availa	mation able	No information available	on	-
Subchronic dermal	No availa	information able	No information available	No information available	No infor availa	mation able	No information available	on	-
Subchronic inhalation	No availa	information able	No information available	No information available	-	No No information available available		on	-
Chronic oral	No availa	information able	No information available	No information available	No infor availa	mation able	No informatio available	on	-
Chronic dermal	dermal No information available		No information available	No information available	No infor availa	mation able	No information available	on	-
Chronic inhalation	No availa	information able	No information available	No information available	No infor availa	mation able	No informatio available	on	-
				•					
Specific	target	organ toxicit	y – repeated e	exposure (STOT	RE):				
			Specific effec	cts		Target o	organ		Note
Subacute oral		No informa	ation available		No information available -		-		
Subacute derma		No informa	ation available		No in	formatio	n available	-	
Subacute inhalat	ion	No informa	tion available		No information available		-		
Subchronic oral		No informa	ation available	ailable		No information available		-	
Subchronic dern	nal	No informa	ation available		No in	formatio	n available	-	
Subchronic inha	lation		ation available		No in	formatio	n available	-	
Chronic oral			ation available		-		n available	-	
Chronic dermal			ation available				n available	-	
Chronic inhalation No information available				No in	formatio	n available	-		
			y; mutagenicity	y; reproductive					
Carcinogenicity:			No inform						
Mutage	·····	n vitro:		No inform					
Genoto				No inform					
Mutage					No information available				
Germ co	Germ cell mutagenicity:			ino intorm	No information available				

No information available



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	Summary of evaluation of the CMR properties:
11.2	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	No known endocrine disrupting properties that affect human health.
11.2.2.	Other informations:

12.1 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	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2 Persistence and degradability



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Abioti	c degr	adation									
	D	egradation h	alf-liv	es	N	Method		Evaluatio	n		Note
Marine water	Noi	information a	availak	ole			No information available		-		
Fresh water	Noi	information a	availak	ole	No inf availal	ormation ole	No ii avail	nformatio able	n	-	
Air	Noi	information a	availab	ole	No inf availal	ormation ole	No ii avail	nformatio able	n	-	
Soil	Noi	information a	availab	ole	No inf availal	ormation ole	No ii avail	nformatio able	n	-	
Biode	aradat	ion									
% Degradati		Time (davs)		N	Method		Evaluatio	n		Note
No information			nforma	ition		formation	No ii	nformatio		No info	rmation
	ol-wat	etive potentia er partition of entration		- 1	log Kow	/) Method		Evalu	ation		Note
			-		-	_		_		-	
Biocor	ncentra	ation factor (BCF)								
Value		Speci	es			Method		Evaluati	on		Note
No informatior available		No in available	forma	tion	No information available		No information available		on	-	
Chron	ic eco	toxicity					i			•	
Value		Do	se	•	osure ime	Species	N	/lethod	Evalu	uation	Note
Chronic toxicity on fish		sh LC ₅₀		No	mation	No information	No info	ormation	No inform	nation	-



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	toxicity on ea (<i>Daphnia</i>) EC ₅₀	information i	No nformation available	No inform availat		No information available	-	
12.4	Mobility ir	n soil							
	Known or	predicted distributi	on in environmer	ntal compart	ments:				
	No inform	ation available							
	Surface te	nsion:							
	Value	°C	Concentration	on	Metho	od		Note	
	No informatio available	No information available	No information		No information available				
	Adsorptio	n / desorption							
Transpo	rt	A/D coefficient enry's constant	log Kow	Evaporati	on rate		Method	Note	!
Soil-wat	er No availa	information able	No information available	No inform available	nation	No ir availa	nformation able	-	
Water-a	ir No availa	information able	No information available	No inform available	nation	No ir availa	nformation able	-	
Soil-air	No availa	information able	No information available			No ir availa	nformation able	-	
12.5.	Results of	PBT and vPvB asses	ssment						
	Based on	available data, the p	product does not	contain any	PBT or v	vPvB su	bstances.		
12.6.	Endocrine	disrupting propert	ies						
	No known	endocrine disrupti	ng properties tha	t affect the	environr	ment.			
12.7.	Other adv	erse effects							
	No advers	e effects are expect	ted.						
		osal consideration	S						
13.1	Waste tr	reatment methods							



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13.1.1.	Product/Packaging dispos	al:				
	Submit for disposal to the Protection.	legal person authorized by the Ministry of Environmental and Nature				
13.1.2.	Waste codes/waste designations according to Law:					
	Packaging that contains re	sidual hazardous substances or is contaminated with hazardous substances				
13.1.3.	Waste treatment – relevan	t information:				
	No information available					
13.1.4.	Sewage disposal – relevan					
	Waste must not be dispos	ed of into the sewage system.				
13.1.5.	Other disposal recommen	dations:				
	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.					
13.1.6.	Relevant Community prov	isions:				
	-					
SECTIO	N 14 TRANSPORT INFORM	ATION				
	Transporting/shipment by ro	pad (ADR)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environr	mentally hazardous:	-				
Special p	orecautions for user:	-				
	Transporting/shipment by ra	ail (RID)				
UN num	ber:	Not subject to transport regulations				
UN proper shipping name:		-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environr	nentally hazardous:	-				
Special p	orecautions for user:	-				
	Inland waterway transport (A	ADN)				



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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 (II	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	ON 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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	None	
15.2	Chemical safety assessme	ent
	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
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	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);

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



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

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Trading name:	BUFFER SOLUTION, pH 7.2				
Product code:	PUF72-OT-X**	Date of compilation:	22 Dec 2022	Version:	4

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 (number and full text)			
	H: -	-		
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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