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Trading name:	BUFFER SOLUTION, pH 6.8					
Product code:	PUF68-OT-X**	Date of compilation:	22 Dec 2022	Version:	4	

1.1	Product identifier					
	Trading name:	BUFFER SO	LUTION, p	Н 6.8		
	Chemical name:	-	-			
	Catalogue number:	PUF68-OT-	X**			
1.2	Relevant identified uses of the substar		tance or n	nixture and uses advised against		
	Uses:		Buffer so	plution for use in hematology, 6 mM.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	Emergency telephone number				
	National Protection ar	d Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTION 2. Hazards identification					
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regu	ulation (EC) No 1	272/2008 (CLP)		
	Hazard class and catego	Hazard statements*:			
	Not identified as hazardous sub	ostance.	-		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	BUFFER SOLUTI	ОN, pH 6.8		
	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 assessment : According to the results of its assessment, this substance is no PBT or a vPvB.				

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.	-			

SECT	TION 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 medio	al attention and special treatment needed
ſ		-	

SECTI	SECTION 5. Firefighting measures					
5.1	Extinguishing media	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 su	ubstance or mixture				
	Hazardous combustion products:	No information available.				
5.3	Advice for firefighters					
	Use a self-contained open-circuit o	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information	Additional information				
	Do not contaminate the environm	ent with extinguishing media.				

SECTIC	ECTION 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, o 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 cont	ainment 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.

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.			
	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 in a a ted storage roomsat temperatures ranging 0 25 °C.			
	Packaging materials:	Manufactu	ırer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away tightly clo	y from food and drink. Keep the containers sed.			
	Advices for storage equipment:	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:	and do no	ace the unused material in the storage room at 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 8. Exposure controls/personal protection								
8.1 Control parameters								
Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values				
		ppm	mg/m ³	-				



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Trading na	me:				BU	FFER SO	LUTIO	N, pH 6.8			
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	·			·							
-				-		-	-			-	
Substance n	ame:	-									
EC No:		-	CAS No	: -							
DNEL											
				•		ustrial		•			
Route of exposure:		Acu effect		Aci	ute ystemic		Chro effect			Chronic effect systemic	
Oral		-	iocai	-	ysternic	-	enect	UCAI	-	enect systemic	
Inhalation		_		-		-			_		
Dermal		_		_					-		
Critical phys	sical para	ameters: s	olubility		lity corr	rosivity:	-				
			,orability,		-	nsumer					
Route of		Ad	cute	Ac	Acute		Chronic		Chronic		
exposure:			t local	effect system				effect systemic			
Oral		-		-		-			-		
Inhalation		-		-		-					
Dermal		-		-		-			-		
PNEC		·				·					
Environmen	tal prote	ection targ	get			PNEC					
Fresh water						No information available					
Freshwater s	sedimen	ts				No information available					
Marine wate	er					No information available					
Marine sedi	ments					No information available					
Food chain						No information available					
Microorgan	isms in s	sewage tr	eatment			No information available					
Soil (agricul	tural)					No information available					
Air				No information available							
	-										
8.2	•	re contro									
8.2.1.	Approp	oriate eng	ineering	controls		11			- 41		-1
				d measure dentified	IS TO	•	e equipi			oms. Use persona nk or smoke in tl	



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	Structural measures to prevent exposure:		In accordance with Section 7.	
	Organisational measures to preve exposure:	vent 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:	Protective 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:		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	ction 6	
	Structural measures to prevent exposure:	Use mo	odern equipment.	
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.	
	Technical measures to prevent exposure:	See Section 6		

SECTI	SECTION 9. Physical and chemical properties								
9.1	Information on basic physical and chemical properties								
	Value Method								
	Physical state:	liquid	No information available						
	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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	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	6.75 – 6.85	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
.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				

SECTION 11. Toxicological information									
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008									
Acute to	xicity:								
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	-				
		·							
Specific	target organ to	xicity – single exposur	e (STOT SE):						



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	Spec	ific effects		Target or	gan	Not	e
Oral:	No information		No inf	ormation av		-	
Dermal:	No information			ormation a		-	
Inhalation:	No information	available	No inf	ormation av	vailable	-	
Aspirati	on hazard:	N	lo information a	available.			
Irritation	n and corrosion						
	Exposur	e time	Species	Evaluatio	n Method	Nc	ote
Skin corrosion/irritatio	on:	-		-	-	-	
Serious eye damage/irritation	n -	-		-	-	-	
Sensitiz							
Skin sensitizatior							
Respiratory sens	itization: -						
	ms related to the pl	-	al and toxicolo	gical charac	teristics		
Oral exposure:	No informati No informati						
Dermal exposure							
Inhalation expos	No informati						
Eye exposure:							
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)				
1	Dose	Exposure time	Species	Method	Evaluat	ion Note	e
Subacute oral	No information available	No information available	No information available	No informat available			
Subacute dermal	No information available	No information available	No information available	No informat available			
Subacute inhalation	No information available	No information available	No information available	No informat available			



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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 targe	t organ t	ovicity	ropostod	avpacura	(CTOT DE)
specific large	l organ l	OXICILY -	repeated	exposure	(SIULKE).
i J	5	,			· /

	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	-

CI	MR effects (carcinogenicity; mutag	genicity; reproductive toxicity)
Ca	arcinogenicity:	No information available
М	utagenicity <i>in vitro</i> :	No information available
Ge	enotoxicity:	No information available
М	utagenicity <i>in vivo</i> :	No information available
Ge	erm cell mutagenicity:	No information available
Re	eproductive toxicity:	No information available



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

12.1 Toxicity		tion				
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	-
	_	_	_		_	_



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7,610	tic degrad	ation							
	Deg	radation ha	lf-lives	Ν	lethod	Evaluation	n		Note
Marine water	No info	ormation a	vailable	No info availat	ormation ole	No informatior available	า	-	
Fresh water	No info	ormation a	vailable	No info availat	ormation ble	No information available	n	-	
Air	No info	ormation a	vailable	No info availat	ormation ble	No information available	n	-	
Soil	No info	ormation a	vailable	No info availat	ormation ble	No information available	า	-	
Biod	egradatior	1							
% Degrada	-	Time (c	avs)	Ν	lethod	Evaluatio	n		Note
No informatic available	on N		ormation		ormation	No information		No info availabl	rmation
		e potentia							
		partition co							
Value -	Concent	ration	рН 	°C -	Method -	Evalua -	ation	-	Note
Bioco	oncentratio	on factor (E	SCF)			1			
Bioco	oncentratio	on factor (E Specie		1	Method	Evaluatio	on		Note
	n No	Specie			ormation	Evaluatio No informatio available		-	Note
Value No informatic	n No	Specie	S	No info	ormation	No information		-	Note
Value No informatic available	n No	Specie inf ilable	S	No info	ormation	No information		-	Note
Value No informatic available	n No ava	Specie inf ilable	ormation Exp	No info	ormation	No information	on	- ation	Note



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Product code: PUF68-OT-X** Date of compilation: 22 Dec 2022 Version: Chronic toxicity on crustacea (Daphnia) EC ₅₀ No information available No information available No information available No information available - 12.4 Mobility in soil Known or predicted distribution in environmental compartments: No information available - - Surface tension: Value °C Concentration available No information available - No information available No information available No information available - - Value °C Concentration available No information available - - No information available No information available No information available - - No information available No information available No information available - - Adsorption / desorption Adsorption / desorption Iog Kow Evaporation rate Method Note	4
Chronic toxicity on crustacea (Daphnia) EC ₅₀ information available information available information available information available - 12.4 Mobility in soil -<	
Known or predicted distribution in environmental compartments: No information available Surface tension: Value °C Value °C No information available No information available available No information available Adsorption / desorption	
No information available Surface tension: Value °C Concentration Method Note No No information available No information available No information available - - Adsorption / desorption A/D coefficient A/D coefficient - - -	
Surface tension: Surface tension: Value °C Concentration Method Note No No No information available No information available - Adsorption / desorption Adsorption / desorption - - -	
Value °C Concentration Method Note No No information No information No information available - available available Image: Second	
No information available No information available No information available No information available - Adsorption / desorption Adsorption / desorption	
information available information available No information available - available - - Adsorption / desorption - A/D coefficient -	
A/D coefficient	
A/D coefficient	
A/D coefficient	
TransportIog KowEvaporation rateMethodNote	
Soil-waterNo availableinformation availableNo information availableNo information availableNo information available	
Water-airNo availableinformation availableNo information availableNo information available	
Soil-airNo availableinformation availableNo information availableNo information availableNo availableNo availableNo availableNo availableNo available	
12.5. Results of PBT and vPvB assessment	
Based on available data, the product does not contain any PBT or vPvB substances.	
12.6. Endocrine disrupting properties	
No known endocrine disrupting properties that affect the environment.	
12.7. Other adverse effects	
No adverse effects are expected.	
SECTION 13. Disposal considerations	
13.1 Waste treatment methods	



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Product/Packaging dispos	sal:		
•	e legal person authorized by the Ministry of Environmental and Nature		
Waste codes/waste design	nations according to Law:		
	esidual hazardous substances or is contaminated with hazardous substances		
;			
Waste treatment – relevar	nt information:		
No information available			
Sewage disposal – relevar	nt information:		
Waste must not be dispos	sed of into the sewage system.		
Other disposal recommen	idations:		
Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors 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.			
.1.6. Relevant Community provisions:			
-			
:			
I 14 TRANSPORT INFORM	ATION		
Transporting/shipment by r	oad (ADR)		
ber:	Not subject to transport regulations		
er shipping name:	-		
t hazard class(es):	-		
group:	-		
nentally hazardous:	-		
recautions for user:	-		
Transporting/shipment by r	ail (RID)		
ber:	Not subject to transport regulations		
	_		
er shipping name:			
er shipping name: t hazard class(es):			
t hazard class(es):	-		
	Submit for disposal to the Protection. Waste codes/waste desig Packaging that contains re Waste treatment – relevan No information available Sewage disposal – relevan Waste must not be dispose Other disposal recommer Do not dispose of the pro authorized by the ministry the packaging to the colle Relevant Community prov - N 14 TRANSPORT INFORM Transporting/shipment by r ber: er shipping name: t hazard class(es): group: nentally hazardous: precautions for user: Transporting/shipment by r		



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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: -	

SECTIO	SECTION 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:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 1999 guideline)	9/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessmen	t
	None	

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



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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classifi	cation	Classification procedure	
-		-	
16.5.	Relevant H statements (num	ber and full text)	
	H: -	-	
16.6.	Training advice:	-	
		** "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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