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

<b>SECT</b>	Product identifier	the substance	e/mixture	e and of the company/undertaking		
	Trading name:	BUFFER SO	LUTION, p	oH 6.8		
	Chemical name:	-				
	Catalogue number:	PUF68-OT-X**				
1.2	Relevant identified use	es of the subs	tance or n	nixture 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 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:	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	nd Rescue Dire	ectorate:	112		
	Medical 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 Reg	ulation (EC) No 1	272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Not identified as hazardous sul	ostance.	-		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	BUFFER SOLUTI	ON, 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
	<b>Results of PBT and vPvB as</b> PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

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	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 effects, 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 medical attention and special treatment needed
	-

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> 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 compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information	Additional information			
	Do not contaminate the environm	ent with extinguishing media.			

SECTIO	ON 6. Accidental release measure	ures		
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, 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.

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.				
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.				
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.				
	Other measures:		-				
7.1.2.	Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.						
7.2	Conditions for safe storage, including any incompatibilities						
	Technical measures and storage conditions:		ghtly closed and upright set containers in a ated storage roomsat temperatures ranging > 25 °C.				
	Packaging materials:	Manufactu	ırer's original packaging.				
	Requirements for storage rooms and vessels:		eep away from food and drink. Keep the containers ghtly closed.				
	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 it 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	Control parameters							
Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values				
		ppm	mg/m³					



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	i			:			1			ī	
-				-		-		-		-	
Substance nar	me:	-					1				
EC No:		-	CAS No	: -							
DNEL											
					In	dustrial			1		
Route of		Acu			ute		Chro			Chronic	
exposure:		effect	local	effect s	systemio	c	effect	local		effect systemic	
Oral	-			-		-			-		
Inhalation	-			-		-			-		
Dermal	-			-		-			-		
Critical physic	al parar	meters: s	olubility,	flammab			-				
		1				nsumer			1		
Route of			cute			Chronic		Chronic			
exposure:		effec	t local	effect system		с	effect local			effect systemic	
Oral		-		-		-			-		
Inhalation		-		-		-			-		
Dermal		-		-		-			-		
PNEC	1					DNIEC					
Environmenta	i protec	ction targ	get			PNEC					
Fresh water						No information available No information available					
Freshwater see	aiment	5									
Marine water Marine sedime						No information available					
Food chain	ents					No information available					
Microorganisr	nc in co	waaa tr	ootmont			No information available No information available					
		ewaye in	eatment								
Soil (agricultu Air	[d])					No information available No information available					
All							mation	avallable			
8.2 E	xposure	e control	s								
	•		ineering	controls							
S	ubstan	ce/mixtu	ire related e during i	d measure			e equip			oms. Use persona ink or smoke in th	



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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 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	ctive 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 Se	ection 6		

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
	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. Toxi	SECTION 11. Toxicological information									
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008										
Acute toxi	icity:									
Route of exposure:	Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	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 ta	arget organ to	xicity – single exposur	e (STOT SE):							



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Product code:	PUF68-OT-X**	Da	ate of compila		22 Dec 202	2 ۱	/ersion:	4
i i oddet code.					22 8 6 6 2 6 2	-		
	Spec	ific effects		Target	organ		Note	
Oral:	No information	available	No inf	ormation	available	-		
Dermal:	No information	available	No inf	ormation	available	-		
Inhalation:	No information	available	No inf	ormation	available	-		
Aspiratio	on hazard:	N	lo information a	available.				
Irritatior	and corrosion							
	Exposur	e time	Species	Evaluat	tion Meth	od	Note	
Skin corrosion/irritatic	on:	-		-	-	-		
Serious eye damage/irritatior	- 1	-		-	-	-		
	:	:		1		:		
Sensitiza	ation							
Skin sensitization	: -							
Respiratory sensi	tization: -							
Sympto	ms related to the pl	nysical, chemic	al and toxicolo	gical chai	acteristics			
Oral exposure:	No informati	on available						
Dermal exposure	: No informati	on available						
Inhalation exposu	ure: No informati	on available						
Eye exposure:	No informati	on available						
Repeate	d dose toxicity (sub	acute, subchro	onic, chronic)					
	Dose	Exposure time	Species	Metho	od Eva	luation	Note	
Subacute oral	No information available	No information available	No information available	No inform availal		ormation iilable	-	
Subacute dermal	No information available	No information available	No information available	No inform availal		ormation iilable	-	
Subacute inhalation	No information available	No information available	No information available	No inform availal		ormation iilable	-	



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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 target organ toxicity – repeated exposure (STOT RE):

	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	-

 civily effects (carcinogenicity, filuta	civit enects (carcinogenicity, indiagenicity, reproductive toxicity)					
Carcinogenicity:	No information available					
Mutagenicity in vitro:	No information available					
 Genotoxicity:	No information available					
Mutagenicity in vivo:	No information available					
Germ cell mutagenicity:	No information available					
Reproductive 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 information:
	-

12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	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 <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	_	_	-	_	-



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Abiot	ic degr	adation									
	De	egradation h	alf-lives		Ν	lethod		Evaluatio	n		Note
Marine water	No i	nformation	available	-	No information available		No information available		n	-	
Fresh water	No i	No information available			info ailab	ormation le	No i avail	nformatio able	n	-	
Air	No i	nformation	available		info ailab	ormation le	No ii avail	nformatio able	n	-	
Soil	No i	nformation	available		info ailab	ormation lle	No ii avail	nformatio able	n	-	
Biode	gradati	ion									
% Degradati	-	Time (	days)		N	lethod		Evaluatio	n		Note
No information		No ir	nformatio		inf	ormation		nformatio			rmation
available		available		ava	ailab	ole	avail	able		availabl	е
		itive potentia er partition o		t (log k	Kow	)					
Value	Conce	entration	рН	°C		Method		Evalu	ation		Note
-	-		-	-		_		-		-	
Віосо	ncentra	ation factor (	(BCF)	2						;	
Value		Speci	es		ľ	Vethod		Evaluati	on		Note
No informatioı available		No in Ivailable	formatio		No information available		No information available		on	-	
Chror	nic ecot	oxicity				1			1		
Valu	ie	Do	se E	xposur time	e	Species	N	Method	Evalu	ation	Note
			No			No	No		No		



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Produc	ct cod	le:	PUF68	3-OT-X**		Date	of co	mpilatio	on:	22 Dec	2022	Versi	on:	4
Chronic toxicity on crustacea ( <i>Daphnia</i> ) EC <sub>50</sub>					information in			formation information in		No information available	-			
12.4	N 4 - I-		1											
12.4	1	oility in		d dictributi	on in o	nvironm	ontal	compart	monte					
			ation av	ed distributi	onme			compart	ments.					
		ace ter		unuble										
		Value		°C	Co	oncentra	tion		Meth	od		No	te	
		rmatio lable		ormation ailable		informat ilable	ion	No inf availat	ormatic ble	on	-			
	Adso	orptior	n / deso	rption								1		
Transpo	ort		./D coef enry's co		lo	g Kow	E١	vaporati	on rate	ſ	Vethod		Note	
Soil-wa	ter	No availa		formation	No in availa	formatic ble		o inform /ailable	ation	No in availa	formation able	-		
Water-a	air	No availa		formation	No in availa	formatic ble		o inform /ailable	nation	No in availa	formation able	-		
Soil-air		No availa		formation	No in availa	formatio ble		o inform /ailable	ation	No in availa	formation able	-		
12.5.	Resu	ults of	PBT and	l vPvB asses	sment									
	Base	ed on a	available	e data, the p	roduct	does no	ot cont	tain any	PBT or	vPvB su	bstances.			
12.6.				ng properti				·	•					
	NO P	known	endocr	ine disrupti	ng pro	perties tr	hat aff	ect the e	environi	ment.				
12.7.	Othe	er adve	erse effe	octs										
				are expect	ed.									
SECTIO	N 13.	. Dispo	osal con	sideration	s									
13.1	W	aste tr	eatment	t methods										



		d	mended by Regulation (EU	(0, 100, 2020/070)		
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13.1.1.	Product	/Packaging disposal:				
	Submit Protecti		person authorized by the Min	istry of Environment	al and Nature	
13.1.2.	Waste c	odes/waste designation	ns according to Law:			
	Packagi	ng that contains residua	al hazardous substances or is co	ontaminated with ha	azardous substai	nces
13.1.3.	Waste t	reatment – relevant info	ormation:			
	No info	rmation available				

13.1.4.Sewage disposal – relevant information:Waste must not be disposed of into the sewage system.

13.1.5. Other disposal recommendations:

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.

13.1.6. Relevant Community provisions:

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#### **SECTION 14 TRANSPORT INFORMATION**

Transporting/shipment by ro	bad (ADR)
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 ra	ail (RID)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (A	ADN)



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		·						
UN number:		Not subject to transport regu	ılations					
UN proper shipping	g name:	-						
Transport hazard c	lass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	s for user:	-						
Transporti	ng/shipment by sea (IN	/IDG)						
UN number:		Not subject to transport regulations						
UN proper shipping	g name:	-						
Transport hazard c	lass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	s for user:	-						
Transport in bulk a of MARPOL 73/78	according to Annex II and the IBC code:	-						
Transporti	ng/shipment by air (IC/	AO-TI/IATA-DGR)						
UN number:		Not subject to transport regulations						

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: -	

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:	<ul> <li>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;</li> <li>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;</li> <li>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;</li> <li>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;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain</li> </ul>	
	dangerous substances, mixtures and articles (Annex XVII); Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)		
	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:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>		
16.3.	Key literature references and source of data:	-		



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Trading name:	BUFFER SOLUTION, pH 6.8				
Product code:	PUF68-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:	-	
		** "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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