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Trading name:		BUFFER SOLUTION	I, pH 6.8	
Product code:	PUF68-OT-X**	Date of compilation:	06 June 2019	Version: 2

SECTI	ON 1: Identification of t	the substance	e/mixture	e and of the company/undertaking		
1.1	Product identifier					
	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 advis	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic against: 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 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 an	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ION 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*:				
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For fu	ıll text of Hazard- and EU Haza	rd-statements: see	e SECTION 16		
2.2	Label elements				
	Product identification:	BUFFER SOLU	UTION, pH 6.8		
	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 ef	fects, both acute and delayed
	Following inhalation:	No information available.
	Following skin contact:	No information available.
	Following eye contact:	No information available.
	Following ingestion:	No information available.
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:	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 environment	ent with extinguishing media.			

SECTIO	TION 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 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				
	-				

SECTIO	SECTION 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.			



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	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. The	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incom	patibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in well ventilated storage roomsat temperatures range from 15 to 25 °C.			
	Packaging materials:	Manufactu	ırer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away tightly clos	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 dra that directly leads into sewage system. Secure prope 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:	-			
	Industrial sector specific solutions:	-			

SECTION 8. Exposure controls/personal protection								
8.1 Control parameters								
Substance CAS			•		upational exposure limit lues/short term values		Biological limit	values
				рр	m	mg/m ³		
-			-	-		-	-	
Substance name:	-							
EC No:	-	CAS No	: -					
DNEL								
Industrial								
Route of	Acı	ıte	Acu	te		Chronic	Chro	nic
exposure:	effect	local	effect sy	stemic		effect local	effect sys	stemic
Oral	-		-		-		-	`



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Inhalation	ו	-	-	-	-			
Dermal		-	- 1.11.					
Critical pl	nysical par	ameters: solubility, f		ii				
		Assista		onsumer		Clause in in		
Route of exposure		Acute effect local	Acute effect systemi	Chro ic effect		Chronic effect systemic		
Oral		-	-	-	-	check systemic		
Inhalation	า	_	_	_	_			
Dermal	-		_	_	_			
PNEC								
	ental prot	ection target		PNEC				
Fresh wat	•			No information a	vailable			
Freshwat	er sedimer	nts		No information a	vailable			
Marine w	ater			No information available				
Marine se	ediments			No information a	vailable			
Food cha	in			No information available				
Microorg	anisms in	sewage treatment		No information available				
Soil (agri	cultural)			No information available				
Air				No information a	vailable			
8.2		ire controls						
8.2.1.	Appro	priate engineering co	ontrols	_				
		nce/mixture related t exposure during ic		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structu exposu	ural measures to pre- ure:	vent	In accordance with Section 7.				
	Organi exposu	sational measures to ire:	o prevent	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secur stations for rinsing eyes and showering.				
8.2.2.	Person	al protection equipr	ment					
8.2.2.1.	Eye an	d face protection:	Safety glasses that stick to face (EN 166) or visor in case of lowe 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 nr	otection						



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	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:	Ensure adequate ventilation to the premises where the product is stored and/or handled.		
8.2.2.4.	Thermal hazards:	No information available		
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Section 6		
	Structural measures to prevent exposure:	Use modern equipment.		
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to prevent exposure:	See Section 6		

.1	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	colourless	No information available			
	Odour:	No information available	No information available			
	Odor threshold:	No information available	No information available			
	pH:	6.8	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			



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	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:	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 Inform	ation on toxicolo	gical effects				
Acute 1	toxicity:					
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure t	ime Results	
Oral:	_	No information available	No information available	No informat available	tion -	
Dermal:	-	No information available	No information available	No informat available	tion -	
Inhalation:	-	No information available	No information available	No informat available	tion -	
Specifi	c target organ to	xicity – single expo	osure (STOT SE):			
. ·		specific effects	Target or	gan	Note	
Oral:	No informa	tion available	No information av	No information available -		
Dermal:	No informa	tion available	No information av	No information available -		
Inhalation:	nhalation: No information available		No information available -		_	
			·			
٨ ن ١	ion hazard:	N	No information available.			



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Irritation	n and c	orrosion					
		Exposure	e time	Species	Evaluation	Method	Note
Skin corrosion/irritation	on:	-	-		-	-	-
Serious eye damage/irritation	n	-	-		-	-	-
Sensitiza							
Skin sensitization		-					
Respiratory sensi	itizatior	n: -					
Sympto	ms rela	ted to the ph	nysical, chemic	al and toxicolog	gical characteri	stics	
Oral exposure:		No informati			,		
Dermal exposure	:	No informati	on available				
Inhalation expos		No informati	on available				
Eye exposure:		No informati	on available				
-							
Repeate	ed dose	toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluatio	n Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No informati available	on -
Subacute dermal	No availa	information able	No information available	No information available	No information available	No informati available	on -
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No informati available	
Subchronic oral	No availa	information able	No information available	No information available	No information available	No informati available	
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No informati available	
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No informati available	
Chronic oral	No availa	information able	No information available	No information available	No information available	No informati available	on -



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Chronic derma		No information inform 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	-	
Cnocif	is target	araan tayisit	v repeated o	masura (STOT	DE).				
Specii	ic target	organ toxicit	y – repeated ex Specific effec	·	Target o	rgan		Note	
Subacute oral	<u> </u>				No information		_	Note	
Subacute derm	al		tion available		No information		_		
Subacute inhal			tion available		No information		-		
Subchronic ora		No informa	tion available		No information		_		
Subchronic der	mal		tion available		No information		-		
Subchronic inh	alation	No informa	tion available		No information	n available	-		
Chronic oral		No informa	tion available		No information	n available	-		
Chronic derma		No informa	tion available		No information	n available	-		
Chronic inhalat	ion	No informa	tion available		No information	n available	-		
1									
CMR 6	effects (c	arcinogenicit	y; mutagenicity	; reproductive	toxicity)				
Carcin	ogenicit	y:			ation available				
	enicity i	n vitro:			ation available				
	oxicity:				No information available				
	enicity i				ation available				
		agenicity:			ation available				
Repro	ductive t	oxicity:		No inform	ation available				
Summ prope	•	evaluation	of the CM	IR No inform	ation available				
11.2 Praction	cal exper	iences:							
Classit	ication c	bservations:		No inform	nation available				
Other	observa	tions:		No inform	nation available				
11.3 Gener	al notes:								
_									



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SECTION 12. E	cologic	cal informat	tion						
12.1 Toxicity	У								
Acute (short-ter toxicity	rm)	Dose	Exposur time	re	Species	Method	Eva	luation	Note
Fish		LC ₅₀	96 hours	2 :	No information available	No information available	No inforr availa	nation Ible	-
Crustacea:		EC ₅₀	48 hours	-	No information available	No information available	No inforr availa	nation Ible	-
Algae/aquatic p	olants	IC ₅₀	4 days		No information available	No information available	No inforr availa	nation Ible	-
Other organism	ıS	-	-		-	-	-		-
Chronic (long-toxicity	erm)	Dose	Exposur time	re	Species	Method	Eva	aluation	Note
Fish		LC ₅₀	96 hours	2	No information available	No information available	No inforr availa	nation ble	-
Crustacea:		EC ₅₀	48 hours	2 !	No information available	No information available	No information available		-
Algae/aquatic plants IC		IC ₅₀	72 hours	2	No information available	No information available	No inforr availa	nation Ible	-
Other organism	ıs	-	-		_	-	-		-
12.2 Persist	ence ai	nd degradab	oility						
Abiotic	degra	dation		·					
	De	gradation ha	alf-lives		Method	Evaluatio	n		Note
Marine water	No ir	nformation a	vailable		information ailable	No information available		-	
Fresh water	No ir	nformation a	vailable		information ailable	No information available		-	
Air	No ir	No intormation available			information ailable	No informatio available	on	-	
Soil No information available			information ailable	No informatio available	on	-			
-									
Biodeg									
% Degradation	on	Time (c	lays)		Method	Evaluatio	n		Note



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No info		No avail		nation	No infavailat	ormatio		No informatio available	on	No infavailat	ormation ble
12.3	Bioaccumu	ulative p	ootential								
	Octanol-w	ater pai	tition coef	ficient (log Kow	·)					
Value	e Coi	ncentrat	tion p	Н	°C	Ме	ethod	Evalı	uation		Note
-	-		-		-	-		-		-	
		tration	factor (BCF)							
	alue		Species			Method		Evaluat		Note	
No info	rmation e	No availat	inform ole	nation	No info	ormatio le	n	No informat available	ion	-	
	Characia										
	Chronic ec	COTOXICIT	У	Eve	ocuro						
	Value		Dose	Exposure time		Spe	ecies	Method	Eval	uation	Note
Chronic	toxicity on	fish	LC ₅₀	No infor availa	mation able	No inforr availa	nation ble	No information available	No inforn availa		-
	toxicity on ea (<i>Daphnia</i>)	EC ₅₀	No infor availa	mation able	No inforr availa	nation ble	No information available	No inforn availa		-
			i					<u>I</u>	i .		i
12.4	Mobility in	soil									
	Known or	predicte	ed distribut	ion in e	environm	nental c	ompart	ments:			
	No inform	ation av	vailable								
	Surface te	nsion:							•		
	Value		°C	С	oncentra	ation		Method			Note
	No informatio available		ormation ailable		informa iilable	 ntion	No inf availal	formation ole	-		



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	Adsorption / desor	•				
Transpo	A/D coeff Henry's co		log Kow	Evaporation rate	Method	Note
Soil-wat	ter No in available	formation	No information available	No information available	No information available	-
Water-a	nir No in available	formation	No information available	No information available	No information available	-
Soil-air	No in available	formation	No information available	No information available	No information available	-
12.5	Results of PBT and		sment			
	No information ava	ailable				
12.6	Other adverse effe					
	No information ava	ailable				
CECTIO	N 12 B:l	-1-141	_			
	N 13. Disposal con		5			
13.1	Waste treatment	methods				
13.1.1.	Product/Packagi	ng disposal	•			
				rized by the Ministr	y of Environmental	and Nature
13.1.2.	Waste codes/wa	ste designa	tions according to	Law:		
	Packaging that c	ontains res	idual hazardous sı	ubstances or is cont	aminated with haza	ardous substances
13.1.3.	Waste treatment		information:			
	No information a	available				
13.1.4.	Coupan disposal	rolovant	information			
15.1.4.	Sewage disposal			ao system		
	waste must not	be dispose	d of into the sewa	ge system.		
13.1.5.	Other disposal re	ecommend	ations:			
				the sewage system.	Submit the remain	is to the collectors
	authorized by th	e ministry i	n charge. Do not d	dispose of the packa	aging into the sewa	
				the ministry in char	ge.	
13.1.6.	Relevant Commu	unity provis	ions:			



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-	
SECTION 14 TRANSPORT INFORMATION	
Transporting/shipment by road	(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 rail (F	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 (ADN	I)
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 (I	(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 (IG	CAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-



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Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

15.1	ON 15. Regulatory information Safety, health and environ	nmental regulations/legislation specific for the substance or mixture
	EU regulations	·
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
		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);
	Other EU regulations:	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 19 guideline)	99/13/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 assessme	ent
	None	

SECTION 16. Other information		
16.1	Indication of changes:	-



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16.2	Abbreviations and acronyms:	vPvB LD ₅₀ LC ₅₀	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure	
16.3.	3. Key literature references and source of data:			
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classification		Classification procedure		
-		-		
16.5.	Relevant H statements (number and full text)			
	H: -	-		
16.6.	Training advice:	-		
16.7.	Further information:	the product) We are not respon	ct code marks different volumes (different packagings of sible for consequences in case of failure to comply with e or improper use of the product described in this a sheet.	

ANNEX: Exposure scenario resulting to chemical safety assessment
--