

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

GIEMSA HP KIT

The kit contains:

Buffer solution, pH 7.2
Dehydrating reagent
Differentiating reagent for Giemsa HP kit
Giemsa solution



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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	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	BUFFER SO	LUTION, p	oH 7.2	
	Chemical name:	-			
	Catalogue number:	PUF72-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:		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	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 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 Propert	ties:		
	No known endocrine disrupting properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is r 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.	-		

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 medic	cal attention and special treatment needed
	-	

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	ON 6. Accidental release meas	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 case of inadequate ventilation use adequate airways protective equipment (see Section 8).			
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 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.					
7.10	Other measures:		-					
7.1.2.	Advice on general occupational hygiene:							
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.							
7.2	Conditions for safe storage, including any incon	npatibilities						
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in well ventilated storage roomsat temperatures rangi from 15 to 25 °C.						
	Packaging materials:	Manufact	urer's original packaging.					
	Requirements for storage rooms and vessels:	Keep awa tightly clo	y from food and drink. Keep the containers osed.					
	Advices for storage equipment:	The storage must be made of hard material; floor must be resistant to chemicals. There must be n that directly leads into sewage system. Secure p ventilation.						
	Further information on storage conditions:	Do not place the unused material in the storage rand do not use empty containers for storing othe chemicals. Do not store with incompatible material (see Section 10).						
7.3	Specific end use(s)							
	Recommendations:	-						
	Industrial sector specific solutions:	-						

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



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	•			·	1						
-				-		-	-			-	
Substance name	e:	-	T				ı				
EC No:		-	CAS No	: -							
DNEL											
					Ind	lustrial					
Route of		Acu	ıte	Acu	ıte		Chro	_		Chronic	
exposure:		effect	local	effect sy	/stemic		effect l	ocal		effect systemic	
Oral	-			-		-			-		
Inhalation	-			-		-			-		
Dermal	-			-		-			-		
Critical physical	parai	meters: s	solubility,	flammabili	ity, corr	rosivity:					
				_	Con	nsumer					
Route of	Route of Acute			Acute			Chronic			Chronic	
exposure:		effec	t local	effect sy	/stemic	c effect local			effect systemic		
Oral		-		-		-			-		
Inhalation		-		-		-			-		
Dermal		-		-							
PNEC											
Environmental p	rote	ction tar	get			PNEC					
Fresh water						No inforn	nation a	vailable			
Freshwater sedir	ment	S				No information available					
Marine water						No inform	nation a	vailable			
Marine sedimen	its					No inforn	nation a	vailable			
Food chain						No inform	nation a	vailable			
Microorganisms	in se	ewage tr	eatment			No inform	nation a	vailable			
Soil (agricultural	l)					No information available					
Air						No inform	nation a	vailable			
8.2 Exp	osure	e contro	ls								
8.2.1. App	propr	iate eng	ineering	controls							
		-		d measures identified ι	10 TO		e equipr			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 the 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:	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 m	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	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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	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
	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 Inform	Information on hazard classes as defined in Regulation (EC) No 1272/2008										
Acute	toxicity:										
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results						
Oral:	-	No information available	No information available	No information available	_						
Dermal:	-	No information available	No information available	No information available	_						
Inhalation:	-	No information available	No information available	No information available	_						



inhalation

available

available

available

available

available

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		Spec	ific effects		Targe	et organ			Note	
Oral:	No	information	available	No i	nformatic	n availab	ole -	_		
Dermal:	No	information	available	No i	nformatic	n availab	ole -	_		
Inhalation:	No	information	available	No i	nformatio	n availat	ole -	-		
Aspirati	ion haza	ard:	١	No informatio	n availabl	e.				
Irritatio	n and co	orrosion								
IIIItatio	ii and c	Exposur	e time	Species	Evalu	ation	Method		Note	
Skin corrosion/irritati	on:	-	-	<u> </u>	-		-	-		
Serious eye damage/irritatio	n	-	-		-		_	-		
Sensitiz	ation									
Skin sensitization	n:	-								
Respiratory sens	itization	n: -								
Sympto	me rola	tad to the pl	nysical, chemic	cal and toyico	logical ch	aractoric	tics			
Oral exposure:	-	No informati		cai and toxico	iogical cri	aracteris	ucs			
Dermal exposure			on available							
Inhalation expos			on available							
Eye exposure:		No informati								
, ,										
Repeate	ed dose	toxicity (sub	acute, subchr	onic, chronic)						
, .		Dose	Exposure time	Species	Meth	nod	Evaluati	on	Note	
Subacute oral	No i availa	nformation ble	No information available	No information available	No infor avail	mation able	No informa available		_	
Subacute dermal	No i availa	nformation ble	No information available	No information available	No infor avail	mation able	No informa available		-	
Subacute	No i	nformation	No information	No information	No n infor	mation	No informa	tion	-	



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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	-

CMR effects (carcinogenicity; mutagenicity; 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 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	_	_	_	_	_	_



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Abiotic	degr	adation								
	De	egradation h	alf-liv	'es	٨	1ethod	Evaluatio	n		Note
Marine water	r No information available				No information available		-			
Fresh water	No i	nformation a	availa	ble	No info	ormation ble	No information	n	-	
Air	No i	information a	availa	ble	No info	ormation ble	No information	n	-	
Soil	No i	information a	availa	ble	No info	ormation ble	No information available	n	-	
Biodeg	aradati	ion								
% Degradation		Time (dave)			1ethod	Evaluatio	n		Note
No information			nforma	ation		ormation	No information		No info	
available		available	HOITH	ation	availak		available	 	availabl	
	ol-wat	er partition of entration		1	°C) Method	Evalu	ation	-	Note
			-							
Biocor	ncentra	ation factor (BCF)							
Value		Speci			l	Method	Evaluati	on		Note
No information available		No in available	forma	ation	No information available		No informati	on	_	
Chroni	c ecot	toxicity	:			1	1			
Value	<u> </u>	Do	se		osure ime	Species	Method	Evalu	ation	Note
Chronic toxicity on fish		sh LC ₅₀		No infor	mation	No information available	No information	No inform	ation lle	-



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Chronic		-	EC ₅₀	No information available	No inforn availa	mation ible	No informa availabl		No information available	-
12.4	Mob	oility in so	il							
	Knov	wn or pre	dicted distributi	on in environme	ental c	ompartn	nents:			
	No i	nformatio	n available							
	Surf	ace tensio	n:	:						
	١	/alue	°C	Concentrat	ion		Metho	d		Note
	No infoi avail	rmation lable	No information available	No informati available	ion	No info	ormation le	1	-	
	Adso	orption / o	desorption		:					:
Transport Henr		-	coefficient 's constant	log Kow	Ev	Evaporation rate		١	/lethod	Note
		No available	information	No information available	nation No information available		ation	No information available		-
Water-a	air	No available	information	No information available	tion No informa available	ation No infor available	formation ble	-		
Soil-air		No available	information	No information available		o informa ailable	ation	No in availa	formation ble	-
12.5.	Resu	ılts of PBT	and vPvB asses	ssment						
	Base	ed on avai	lable data, the p	product does no	t cont	ain any F	PBT or v	PvB sul	ostances.	
12.6.	Fnde	ocrine disc	rupting properti	es						
12.0.				ng properties th	at affe	ect the e	nvironm	ent		
	r		a serine distupti	5. 5 5 6 1 11 6 5 11	3. 4110					
12.7.	Othe	er adverse	effects							
	No a	adverse ef	fects are expect	ed.						
CECTIO	NI 12	Dichasal	consideration							



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13.1.1.	Product/Packaging disposa	al:			
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.				
13.1.2.	Waste codes/waste designa	ations according to Law:			
	Packaging that contains res	sidual hazardous substances or is contaminated with hazardous substances			
13.1.3.	Waste treatment – relevant	t information:			
	No information available				
13.1.4.	Sewage disposal – relevant	t information:			
	Waste must not be dispose	ed of into the sewage system.			
13.1.5.	Other disposal recommend				
	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.				
	authorized by the ministry	in charge. Do not dispose of the packaging into the sewage system. Submit			
13.1.6.	authorized by the ministry the packaging to the collection	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge.			
13.1.6.	authorized by the ministry	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge.			
13.1.6.	authorized by the ministry the packaging to the collection	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge.			
	authorized by the ministry the packaging to the collect Relevant Community provis	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. sions:			
SECTION	authorized by the ministry the packaging to the collect Relevant Community provises	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. sions: ATION			
SECTION	authorized by the ministry the packaging to the collect Relevant Community provises - N 14 TRANSPORT INFORMA Transporting/shipment by ro	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. sions: ATION pad (ADR)			
SECTION UN num	authorized by the ministry the packaging to the collect Relevant Community provises - N 14 TRANSPORT INFORMA Transporting/shipment by rober:	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. sions: ATION			
SECTION UN num UN prop	authorized by the ministry the packaging to the collect Relevant Community provises - N 14 TRANSPORT INFORMA Transporting/shipment by ro	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. sions: ATION pad (ADR)			
SECTION UN num UN prop	authorized by the ministry the packaging to the collect Relevant Community provises. N 14 TRANSPORT INFORMAT Transporting/shipment by rober: Deer shipping name: Art hazard class(es):	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. sions: ATION Pad (ADR) Not subject to transport regulations -			
UN num UN prop Transpor	authorized by the ministry the packaging to the collect Relevant Community provises. N 14 TRANSPORT INFORMAT Transporting/shipment by rober: Deer shipping name: Art hazard class(es):	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. sions: ATION Pad (ADR) Not subject to transport regulations			
UN num UN prop Transpor Packing	authorized by the ministry the packaging to the collect Relevant Community provises - N 14 TRANSPORT INFORMA Transporting/shipment by rober: Deer shipping name: Introduction of the collect of the c	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. Sions: ATION Pad (ADR) Not subject to transport regulations			
UN num UN prop Transpor Packing Environn Special p	authorized by the ministry the packaging to the collect Relevant Community provises - N 14 TRANSPORT INFORMA Transporting/shipment by rober: Deer shipping name: The ret hazard class(es): group: mentally hazardous:	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. Sions: ATION Pad (ADR) Not subject to transport regulations			
UN num UN prop Transpor Packing Environn Special p	authorized by the ministry the packaging to the collect Relevant Community provises. PARTITION 14 TRANSPORT INFORMATION Transporting/shipment by rober: Deer shipping name: Part hazard class(es): Group: Inentally hazardous: Drecautions for user: Transporting/shipment by rain	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. Sions: ATION Pad (ADR) Not subject to transport regulations			
UN num UN prop Transpor Packing Environn Special p	authorized by the ministry the packaging to the collect Relevant Community provises. PARTITION 14 TRANSPORT INFORMATION Transporting/shipment by rober: Deer shipping name: Part hazard class(es): Group: Inentally hazardous: Drecautions for user: Transporting/shipment by rain	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. sions: ATION Pad (ADR) Not subject to transport regulations			
UN num UN prop Transpor Packing Environn Special p UN num UN prop	authorized by the ministry the packaging to the collect Relevant Community provises - N 14 TRANSPORT INFORMA Transporting/shipment by rober: Per shipping name: Pe	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. sions: ATION Dad (ADR) Not subject to transport regulations Not subject to transport regulations Not subject to transport regulations			
UN num UN prop Transpor Packing Environn Special p UN num UN prop	authorized by the ministry the packaging to the collect Relevant Community provises. Relevant Community provises. PARTITION 14 TRANSPORT INFORMATION Transporting/shipment by round ber: Per shipping name: Per shipping name: Per shipping name: Per cautions for user: Transporting/shipment by rail ber: Per shipping name:	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. Sions: ATION Dad (ADR) Not subject to transport regulations			
UN num UN prop Transpor Packing Environn Special p UN num UN prop Transpor Packing	authorized by the ministry the packaging to the collect Relevant Community provises. Relevant Community provises. PARTITION 14 TRANSPORT INFORMATION Transporting/shipment by round ber: Per shipping name: Per shipping name: Per shipping name: Per cautions for user: Transporting/shipment by rail ber: Per shipping name:	in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. sions: ATION Pad (ADR) Not subject to transport regulations			



SAFETY DATA SHEET

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

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 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);	
	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 assessment		
	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:	-		



SAFETY DATA SHEET

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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:	-		
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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Trading name:	DEHYDRATING REAGENT		NG REAGENT	J	
Product code:	RDH-OT-X**	Revision date:	12 July 2019	Version:	3

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	DEHYDRATING REAGENT			
	Chemical name:	-			
	Catalogue number:	RDH-OT-X**			
1.2	Relevant identified uses of the substance or mixture and uses advised against		nixture and uses advised against		
	Uses:		For use	with Giemsa HP kit.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in</i> against: medical device, registered at the Agency for Medicin Medical Devices and there is no reason to use it for our meason to use it for our meason to use it for our meason.		
1.3	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	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	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 Regu	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and category code: Hazard statements*:				
	Flam. Liq. 2 H225				
2.1.2.	Additional information				
	-				
*For ful	I text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification: DEHYDRATING REAGENT				
	Identification number: -				
	Authorization number: -				



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Trading name:	DEHYDRATING REAGENT				
Product code:	RDH-OT-X**	Revision date:	12 July 2019	Version:	3

	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

SECTION 3. Con	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)			
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- xxxx	≥ 70 %	ethanol	Flam. Liq. 2; H225			

SECT	SECTION 4. First aid measures			
4.1	Description of first aid measu	res		
	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.		



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Trading name:	DEHYDRATING REAGENT				
Product code:	RDH-OT-X**	Revision date:	12 July 2019	Version:	3

	Following ingestion:	Rinse the mouth thoroughly with 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:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.		
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.		
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.		
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.		
4.3	Indication of any immediate medi	Indication of any immediate medical attention and special treatment needed		
	-			

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media	Extinguishing media			
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂			
	3 3	Large fire - water spray or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Formation of toxic gases is possible during heating or in case of fire.			
5.3	Advice for firefighters	Advice for firefighters			
	Use a self-contained open-circuit co	ompressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures				
6.1	Personal precautions, protective	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. Keep away from ignition sources.			



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Trading name:	DEHYDRATING REAGENT				
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		Mark the area using proper signs		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Use protective equipment; in (see Section 8).	case of inadequate ventilation use adequate airways protective equipment		
6.2	Environmental precautions:			
	Do not dispose of in sewage, Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.		
6.3	Methods and material for con	tainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling.			
		on personal protection equipment.		
	See Section 13 for disposal information.			

SECTIO	ECTION 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation	ı :	Secure proper ventilation.			
	Measures to protect the environment:	easures to protect the environment:				
	Other measures:		Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Tho	roughly was	h hands after work and before eating.			
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	well ventila	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.			



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Trading name:		DEHYDRATI	NG REAGENT		
Product code:	RDH-OT-X**	Revision date:	12 July 2019	Version:	3

	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

		_					
8.1 Control pa		ols/perso	nal protec	tion			
8.1 Control pa	irameters	l l		0	- 4 1		
C 1 .			S No			exposure limit term values	Dialogical limit values
Substance		CA	2 110			mg/m ³	Biological limit values
Esta a a a l		C 4	17.5	pp			
Ethanol		64-	-17-5	100	0/-	1900/-	-
Substance name:	_						
EC No: - CAS No: -							
DNEL							
Industrial							
					striai		
Route of	Acı		Acu			Chronic	Chronic
exposure:	effect	local	effect sy	stemic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		950 mg/m³ (ethanol)
Dermal	-		-		-		343 mg/kg (ethanol)
Critical physical par	ameters: s	solubility,	flammabili	ty, corro	sivity:	-	
				Cons	umer		
Route of	A	cute	Acu	ite		Chronic	Chronic
exposure:	effec	t local	effect sy	stemic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		114 mg/m³ (ethanol)
Dermal	-		-		ı		206 mg/kg (ethanol)
PNEC							



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Trading name:		DEHYDRATI	NG REAGENT		
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Environmental pr	otection target	PNEC	
Fresh water		0.96 mg/l (ethanol)	
Freshwater sedim	ents	3.6 mg/kg (ethanol)	
Marine water		0.79 mg/l (ethanol)	
Marine sediments		no information available	
Food chain		no information available	
Microorganisms in sewage treatment		no information available	
Soil (agricultural)		0.63 mg/kg (ethanol)	
Air		no information available	

8.2	Exposure controls		
8.2.1.	Appropriate engineering controls		
	Substance/mixture related measur prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:		In accordance with Section 7.
	Organisational measures to prevene exposure:	nt	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent exp	oosure:	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	t	
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.
8.2.2.2.	Skin protection		
	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min	
	Other skin protection:	footwe entire t impern	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.



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Trading name:		DEHYDRATI	NG REAGENT		
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8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) according to EN 14387) used when concentration levels exceed GVI.			
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			

9.1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour:	alchohol like	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	17 °C	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):	1 g/l (20°C)	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available



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Trading name:		DEHYDRATIN	G REAGENT		
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	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
9.2	Other information		
	-		

SECTIO	SECTION 10. Stability and reactivity		
10.1	Reactivity:	See subsections 10.3 through 10.5.	
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).	
10.3	Possibility of hazardous reactions:	No dangerous reactions known.	
10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.	
10.5	Incompatible materials:	No further relevant information available.	
10.6	Hazardous decomposition products:	No dangerous decompostion products known.	

SECTION 1	11. Toxicolo	gical infor	mation								
11.1 In	11.1 Information on toxicological effects										
A	cute toxicity:										
Route of exposure:	Method Species		Do	ose LD_{50}/LC_{50} or Ex		Exposure time		Results			
Oral:		-	rat (ethanc	ol)	LD ₅	0	-		7.060 mg/kg		
Dermal:		-	-		-		-		-		
Inhalation:		-	rat (ethanc	ol)	LC ₅	0	4 h		20.000 mg/l		
Sŗ	pecific target	organ toxi	city – single e	xposure (S	STOT SE):					
. ·			ecific effects		Target organ				Note		
Oral:	N	o informatio	on available	No information available				-			
Dermal:	N	o informatio	on available	No information available -				-			
Inhalation:	: No	o informatio	on available	No information available -				-			
A	spiration haz	ard:		No infor	No information available.						
Irı	ritation and o	corrosion									
		Expos	ure time	Spec	ies	Evaluation	Method		Note		
Skin corrosion/i	irritation:	-		-		-	_	-			



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Trading name:	DEHYDRATING REAGENT								
Product code:	oduct code: RDH-OT-X**		12 July 2019	Version:	3				

Serious eye damage/irritation	-	-	-	-	-
Sensitization					

Sensitization	
Skin sensitization:	No information available.
Respiratory sensitization:	No information available.

Symptoms re	Symptoms related to the physical, chemical and toxicological characteristics								
Oral exposure: No information available.									
Dermal exposure: No information available.									
Inhalation exposure:	No information available.								
Eye exposure:	Eye exposure: No information available.								

Repeated dose toxicity (subacute, subchronic, chronic)

	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available			No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-



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Trading name:		DEHYDRATING REAGENT								
Product code:	RDH-OT-X**	Revision date:	12 July 2019	Version:	3					

Chronic inhalat		No availa	information able	No information available	No information available	No information available	No information available	on	-
	Specific	target	organ toxicit	y – repeated e	exposure (STOT	RE):			
	· •			Specific effec		s Target organ			Note
Subacu	acute oral No information available					No information	n available	_	
Subacu	ıte dermal		No informa	tion available		No information	n available	-	
Subacu	ıte inhalati	ion	No informa	tion available		No information	n available	-	
Subchr	onic oral		No informa	tion available		No information	n available	-	
Subchr	onic derm	al	No informa	tion available		No information	n available	-	
Subchr	onic inhal	ation	No informa	tion available		No information	n available	-	
Chroni	c oral		No informa	tion available		No information	n available	-	
Chroni	c dermal		No informa	tion available		No information	n available	-	
Chroni	c inhalatio	n	No informa	tion available		No information	n available	-	
	Carcinoo Mutage Genotoo Mutage	nicity <i>ii</i> «icity: nicity <i>ii</i>	n vitro: n vivo:		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
			agenicity:			able data, the cla			
	Reprodu	ıctive t	oxicity:		Based on avail	able data, the cla	ssification c	riteri	a are not met.
	Summary of evaluation of the C properties:				MR Based on met.	available data, t	he classifica	ation	criteria are not
11.2	Practica	l experi	iences:						
	Classification observations:			No information available					
	Other o	bservat	tions:		No inform	nation available			
11.3	General	notes:							
	_								

Toxicity 12.1



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Trading name:		DEHYDRATING REAGENT								
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Acute (short-te toxicity	rm)	n) Dose Exposure time		e Species	Method	Evaluation	Note	
Fish		LC ₅₀	96 hours	No information available	No information available	No information available	-	
Crustacea: EC ₅₀ 4		48 hours	No information available	No information available	No information available	-		
Algae/aquatic p	olants	IC ₅₀	4 days	No information available	No information available	No information available	-	
Other organism	าร	-	-	-	-	-	-	
Chronic (long-t toxicity	erm)	Dose	Exposur time	e 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 organism	าร	-	-	-	-	-	-	
12.2 Persist	tence a	nd degradab	ilitv					
	c degra		-9					
		gradation ha	If-lives	Method	Evaluatio	n	Note	
Marine water	No ir	nformation av	vailable	No information available	No informatio available	n -	-	
Fresh water	No ir	nformation av	vailable	No information available	No informatio available	n -	-	
Air	No ir	nformation av	vailable	No information available	No informatio available	n -		
Soil No information available		No information available	No informatio available	n -				
Biode	gradatio	on						
% Degradati	_	Time (d	ays)	Method	Evaluatio	n	Note	
No information available	1		ormation	No information available	No informatio available		ormation	



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Trading	g name:		DEHYDRATING REAGENT									
Produc	t code:	RDH-	H-OT-X** Rev			sion d	ate:	12 July 201	19	,	Version:	3
		l .						<u> </u>				
	:											
12.3	Bioaccum	ulative p	otential									
	Octanol-w	ater pai	rtition coeff	cient (log Kow)		1				
Valu	e Co	ncentrat	tion p	Н	°C	M	ethod	Evalua	ation		Note	
-	-		-			-		-		-		
	Bioconcen	tration	factor (BCF)						ı			
V	'alue		Species		١	Method	t l	Evaluation	on		Note	
No info availabl	rmation	No availab	inform	ation	No info		on	No information	on	-		
avallabl	е	avallat	one		available			available				
	Chronic ed	otoxicit	·V									
	1	- CONTEN		Exp	osure							
	Value		Dose		time		ecies	Method	Evaluation		Note	
				No		No		No	No			
Chronic	toxicity on	fish	LC ₅₀	infor availa	mation	information available		information available	informa availabl		-	
				No	anie	No		No	No	Е		
	toxicity on		EC ₅₀		mation		mation	information	informa	ition	-	
crustace	ea (<i>Daphnia</i>	')		availa	able	availa	able	available	availabl	е		
12.4	Mobility in	n soil										
	Known or	predicte	ed distributi	on in e	environm	nental o	compart	ments:				
	No inform	ation av	vailable									
	Surface te	nsion:							1			
	Value		°C	C	oncentra	ition		Method			Note	
	No :=f======	No.		No	informa	tion	No inf	ormation				
	information available		ormation ailable	ava	ilable		availab	· -				
		<u>i</u>		i			<u>.i.</u>		ii			



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Trading name:	DEHYDRATING REAGENT					
Product code:	RDH-OT-X**	Revision date:	12 July 2019	Version:	3	

	Adsorption / desorption				
Transpo	rt A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wat	er No information available	No information available	No information available	No information available	-
Water-a	ir No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5	Results of PBT and vPvB asse	ssment			
	Not applicable.				
<u>.</u>					
12.6	Other adverse effects				
	No further relevant informati	on available.			
SECTIO	N 13. Disposal consideration	ns			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa				
	Submit for disposal to the Protection.	legal person autho	rized by the Ministr	y of Environmental	and Nature
13.1.2.	Waste codes/waste design	ations according to	Law:		
	Packaging that contains re	sidual hazardous sı	ubstances or is cont	aminated with haza	rdous substances
	,				
13.1.3.	Waste treatment – relevant	information:			
	No information available				
	Sewage disposal – relevant	information:			
13.1.4.	· .				
13.1.4.	Waste must not be dispose	ed of into the sewa	ge system.		
13.1.4.	· .		ge system.		
	Waste must not be dispose	lations: luct's remains into in charge. Do not o	the sewage system. dispose of the packa	aging into the sewa	
	Other disposal recommendation Do not dispose of the procauthorized by the ministry	lations: luct's remains into in charge. Do not o ctors authorized by	the sewage system. dispose of the packa	aging into the sewa	



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Trading name:	DEHYDRATING REAGENT					
Product code:	RDH-OT-X**	Revision date:	12 July 2019	Version:	3	

SECTION 14 TRANSPORT INFORMATIO)N
Transporting/shipment by road (ADR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
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:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3



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Product code:	RDH-OT-X**	Revision date:	12 July 2019	Version:	3	

Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTIO	ON 15. Regulatory information	on				
15.1	Safety, health and environm	ental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or restrictions of use					
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives				
	Information according 1999 guideline)	/13/EC about limitation of emissions of volatile organic compounds (VOC-				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2	Chemical safety assessment					
	None					

SECTI	ON 16. Other information	
16.1	Indication of changes:	-



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Trading name:	DEHYDRATING REAGENT					
Product code:	RDH-OT-X**	Revision date:	12 July 2019	Version:	3	

		PBT	Stable, bioaccumulative and toxic		
		vPvB	Strongly stable and strongly bioaccumulative.		
16.2	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%		
		LC ₅₀	Lethal concentration, 50%		
		TCOJ	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:				
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	ication	Classification procedure			
-		_			
16.5.	Relevant H statements (numb	er and full tex	t)		
	H: H225	Highly flamm	able liquid and vapor.		
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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Trading name:	DIFFERENTIATING REAGENT FOR GIEMSA HP KIT					
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3	

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	DIFFERENT	iating re	AGENT FOR GIEMSA HP KIT		
	Chemical name:	-				
	Catalogue number:	RGHP-OT->	RGHP-OT-X**			
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against		
	Uses:		For use	with Giemsa HP kit.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advi	vhy 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 shee	t		
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection ar	nd Rescue Dire	ectorate:	112		
	Medical information: Other information:			+385 1 2348 342		
				-		

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Flam. Liq. 2		H225		
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:	DIFFERENTIATIN	NG REAGENT FOR GIEMSA HP KIT		
	Identification number:	-			
	Authorization number:	_			



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Trading name:	DI	FFERENTIATING REAG	ENTIATING REAGENT FOR GIEMSA HP KIT		
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3

	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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)	
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- xxxx	≥ 70 %	ethanol	Flam. Liq. 2; H225	

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



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Trading name:	DI	FFERENTIATING REAGI	ENTIATING REAGENT FOR GIEMSA HP KIT		
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3

	Following ingestion:	Rinse the mouth thoroughly with 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:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.		
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.		
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.		
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.		
4.3	Indication of any immediate medi	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 ₂ Large fire - water spray or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Formation of toxic gases is possible during heating or in case of fire.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures			
6.1	Personal precautions, protective	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. Keep away from ignition sources.		



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Trading name:	DIFFERENTIATING REAGENT FOR GIEMSA HP KIT				
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3

		Mark the area using proper signs			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in (see Section 8).	case of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.			
6.3	Methods and material for con	tainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).			
6.4	Reference to other sections				
	See Section 7 for information on safe handling.				
		on personal protection equipment.			
	See Section 13 for disposal in				

SECTIO	N 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generation	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Tho	roughly was	h hands after work and before eating.		
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	well ventila	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		



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Trading name:	DIFFERENTIATING REAGENT FOR GIEMSA HP KIT				
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3

	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exp	osure cont	rols/perso	nal pro	otection			
8.1 Control	parameters	S					
Substance		CA	S No			exposure limit term values	Biological limit values
				рр	m	mg/m³	
Ethanol		64	-17-5	100	0/-	1900/-	-
Substance name	-						
EC No:	-	CAS No	:	-			
DNEL							
				Indu	strial		
Route of	A	cute		Acute		Chronic	Chronic
exposure:	effec	t local	effec	t systemic		effect local	effect systemic
Oral	_		-		-		-
Inhalation	-		-		-		950 mg/m³ (ethanol)
Dermal	-		-		-		343 mg/kg (ethanol)
Critical physical	parameters	solubility,	flamma	ability, corro	sivity:	-	
				Cons	umer		
Route of	,	Acute		Acute		Chronic	Chronic
exposure:	effe	ect local	effec	t systemic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		114 mg/m³ (ethanol)
Dermal	-		-		-		206 mg/kg (ethanol)
PNEC							



Hand protection:

Other skin protection:

SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006

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Product	code:	RGHP-OT-X**	Revisi	on date:	12 July 2019	Version:	3
Environm	nental pro	tection target		PNEC			
Fresh wat	•	teetion target		0.96 mg/l (ethanol)		
Freshwat		ents		3.6 mg/kg			
Marine w				0.79 mg/l (
Marine se					tion available		
Food cha					tion available		
Microorg	anisms in	sewage treatment			tion available		
Soil (agri				0.63 mg/kg	g (ethanol)		
Air					tion available		
8.2.1.	Subst	opriate engineering cont ance/mixture related me nt exposure during iden	easures to	Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:			In accordance with Section 7.			
	Orgar	Organisational measures to prevent exposure:			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 e: concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.					
8.2.2.	Perso	nal protection equipme	quipment				
			C-t-+.	Safety glasses that stick to face (EN 166) or visor in case of levels of concentration in air; protective gas mask that cove entire face in case of higher levels of concentration in air.		r visor in case of lov	Nor
8.2.2.1.	Eye ar	nd face protection:	levels	of concentrat	tion in air; protective ga	as mask that covers	

The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374.

During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the

impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.

entire foot. In case of spilling hazard, use clothing made of

Glove material: nitrile rubber

Time until perforation: > 480 min

Glove thickness: 0.40 mm



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Trading name:	DIFFERENTIATING REAGENT FOR GIEMSA HP KIT				
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8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) according to EN 14387) used when concentration levels exceed GVI.
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:	alchohol like	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	17 °C	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):	1 g/l (20°C)	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available



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Trading name:	DIFFERENTIATING REAGENT FOR GIEMSA HP KIT				
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3

	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	ON 10. Stability and reactivity	
10.1	Reactivity:	See subsections 10.3 through 10.5.
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No dangerous reactions known.
10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
10.5	Incompatible materials:	No further relevant information available.
10.6	Hazardous decomposition products:	No dangerous decompostion products known.

SECTIO	ON 11. Toxico	logical infor	mation						
11.1	Information	on toxicolog	ical effects						
	Acute toxicit	y:							
Route (Method	Species	Do	ose LD ₅₀ /LC ₅₀ ATE _{mix}	or	Exposure tir	ne	Results
Oral:		-	rat (ethanc	ol)	LD ₅₀		-		7.060 mg/kg
Derma	Permal: -		-	_			_		-
Inhalat	ion:	-	rat (ethanc	ol)	LC ₅₀		4 h		20.000 mg/l
	c .c				TOT (F)				
	Specific targ	et organ tox	icity – single e	xposure (S	STOT SE):				
		Sp	ecific effects		Target organ				Note
Oral:		No informati	on available		No information available -				
Derma	l:	No informati	ion available		No information available		_		
Inhalat	ion:	No informati	on available		No information available -				
	·								
	Aspiration h	azard:		No infor	mation availa	able.			
				-					
	Irritation and	corrosion							
		Expos	sure time	Spec	ies Ev	aluation	Method		Note
Skin corrosi	on/irritation:	-		-	-		_	-	



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Trading name:	DI	FFERENTIATING REAG	EENT FOR GIEMSA H	ІР КІТ	
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3

r roduct code.	NOI II -	O1-X	INC	vision date.	12 July 20)19	Version.	3
Serious eye damage/irritation	n -		-		-			
Sensitiz	ation							
Skin sensitization	1:	No info	ormation avail	able.				
Respiratory sensi	itization:	No info	ormation avail	able.				
<u> </u>								
Sympto		•	•	al and toxicolog	gical characteris	tics		
Oral exposure:			on available.					
Dermal exposure: No information avai								
Inhalation expos			on available.					
Eye exposure:	No ii	ntormatio	on available.					
Repeate	ed dose toxi	city (suba	acute, subchro	onic, chronic)				
	Dos	e	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No infor available	mation	No information available	No information available	No information available	No information available	۱ -	
Subacute dermal	No infor available	mation	No information available	No information available	No information available	No informatior available	۱ -	
Subacute inhalation	No infor available	mation	No information available	No information available	No information available	No information available	1 -	
Subchronic oral	oral No information available		No information available	No information available	No information available	No informatior available	1 -	
Subchronic dermal	No infor available	mation	No information available	No information available	No information available	No informatior available	n –	
Subchronic inhalation	No infor available	mation	No information available	No information available	No information available	No informatior available	ı –	
Chronic oral	No infor available	mation	No information available	No information available	No information available	No information available	1 -	
Chronic dermal	No infor available	mation	No information available	No information available	No information available	No informatior available	1 -	
Chronic oral	No infor available		No information available No information	No information available No information	No information available No information	No information available No information		



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Trading name:	DI	DIFFERENTIATING REAGENT FOR GIEMSA HP KIT						
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3			

Subacute or Subacute de Subacute in Subchronic Subchronic	ral ermal halation oral dermal inhalation	No informa No informa No informa No informa	y – repeated ex Specific effect ation available ation available ation available	·	Target o			Note	
Subacute or Subacute de Subacute in Subchronic Subchronic	ral ermal halation oral dermal inhalation	No informa No informa No informa No informa	Specific effection available ation available ation available	·	Target o		_	Note	
Subacute de Subacute in Subchronic Subchronic Subchronic	ermal halation oral dermal inhalation	No informa No informa No informa	ition available ition available ition available		No information		_		
Subacute in Subchronic Subchronic Subchronic	halation oral dermal inhalation	No informa	ition available		NI- :£	No information available			
Subchronic Subchronic Subchronic	oral dermal inhalation	No informa			No information available -				
Subchronic Subchronic	dermal inhalation		ition available		No information available -				
Subchronic	inhalation	No informa			No information available -				
		.1	ition available		No information	n available	-		
Chronic oral	Subchronic inhalation No information available Chronic oral No information available				No information	n available	-		
Chronic oral No information available			ition available		No information	n available	-		
Chronic dermal No information available					No information	available	-		
Chronic inha	alation	No informa	ition available		No information	n available	-		
Car Mu	rcinogenicity in notoxicity:	/:		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.					
Μυ	ıtagenicity <i>ir</i>	n vivo:		Based on available data, the classification criteria are not met.					
Ge	rm cell muta	agenicity:		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.					
Rep	productive t	oxicity:							
	mmary of operties:	evaluation	of the CN	IR Based on met.	available data, t	he classifica	ation (criteria are not	
11.2 Pra	actical experi	iences:							
Cla	ssification o	bservations:		No information available					
Oth	her observat	ions:		No inform	ation available				
11.3 Ger	neral notes:								

SECTIO	N 12.	Ecolog	ical in	formati	on

12.1 Toxicity



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Trading name:	DIF	DIFFERENTIATING REAGENT FOR GIEMSA HP KIT							
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3				

Acute (short-term) toxicity		Dose	Exposure time	e 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 organism	าร	-	_	-	-	-	-	
Chronic (long-term) toxicity		Dose	Exposure time	e 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 organism	าร	-	-	-	-	-	-	
12.2 Persist	ence a	nd degradab	ility					
		idation	iiity					
7101011		gradation ha	lf-lives	Method	Evaluatio	n	Note	
Marine water		nformation av		No information available	No information			
Fresh water	No ir	nformation av	/ailable	No information available	No information	n _		
Air	No ir	nformation av	/ailable	No information available	No information available	n -		
Soil	No ir	nformation av	/ailable	No information available	No information available	n -		
Riodeo	gradatio	on.						
% Degradation		Time (d	avs)	Method	Evaluatio	n	Note	
No information available			ormation	No information available	No information	n No info	No information available	



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Trading	g name:			DIFF	ERENTI	ATING	REAG	ENT FOR GIE	MSA H	P KIT		
Produc	t code:	RGHP	P-OT-X**		Revis	sion da	ite:	12 July 20:	19	٧	'ersion:	3
					1			:		-		
122	Diooccum	.lotivo m	otontial									
12.3	Bioaccumi Octanol w		tition coef	ficiont (log Kow	١						
Valu	1	ncentrat		оН	°C		thod	Evalua	ation	* * * * * * * * * * * * * * * * * * *	Note	
- vaiu	_	ilcentia	.1011			-	tillou	_ Lvaiu	ation	_	Note	
			<u> </u>	i	1			<u> </u>				
	Bioconcen	tration	factor (BCF)								
V	'alue		Species		١	Method		Evaluation		Note		
	rmation	No		nation			n	No information		_		
availabl	available available		ole		availab	le		available				
	Chronic ed	otoxicit	V									
	1			Exp	osure							
	Value		Dose		time Species		Method	Evaluation		Note		
Clause in i		£; _1_	1.0	No information		No	4:	No	No	- 4.		
Chronic	toxicity on	tisn	LC ₅₀	avail		inform availal		information available	inform availab		-	
CI:				No		No		No	No			
	toxicity on ea (<i>Daphnia</i>	')	EC ₅₀	1	mation	inform		information	inform		-	
				availa	able	availal	ble	available	availab	le		
12.4	Mobility in	n soil										
12,4			ed distribut	ion in e	nvironm	nental co	omnart	ments:				
	No inform	•		1011 111 0		icritar c	ompare	ments.				
	Surface te											
	Value		°C	С	oncentra	ntion		Method			Note	
	No	No)	No	informa	tion	No inf	ormation				
	information available		ormation ailable		informa iilable	uoH	availak		_			
	avaliable	avi	aliaDIE									
	I	<u></u>										



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Trading name:	DIFFER	ENTIATING REAGENT FOR GIEMSA HP KIT					
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3		

	Adsorption / desorption	:	Ŧ	:	ï
Transpor	t A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wate	No information available	No information available	No information available	No information available	-
Water-ai	r No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5	Results of PBT and vPvB asset	ssment			
	Not applicable.	331116111			
	тчос аррпсавіс.				
12.6	Other adverse effects				
	No further relevant information	on available.			
SECTION	l 13. Disposal consideration	ıs			
13.1	Waste treatment methods				
	*				
13.1.1.	Product/Packaging disposa	l:			
	Submit for disposal to the I Protection.	egal person autho	rized by the Ministr	y of Environmental	and Nature
13.1.2.	Waste codes/waste designa	ations according to	Law:		
	Packaging that contains res	sidual hazardous s	ubstances or is cont	aminated with haza	ardous substances
13.1.3.	Waste treatment – relevant	information:			
	No information available				
13.1.4.	Sewage disposal – relevant	information:			
	Waste must not be dispose	d of into the sewa	ge system.		
	Other disposal recommend	ations:			
13.1.5.	•		1.1	Submit the remain	is to the collectors
13.1.5.	Do not dispose of the prod authorized by the ministry i the packaging to the collec	in charge. Do not o	dispose of the packa	aging into the sewa	
13.1.5. 13.1.6.	Do not dispose of the prod authorized by the ministry i	in charge. Do not o tors authorized by	dispose of the packa	aging into the sewa	



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Trading name:	DIFFERENTIATING REAGENT FOR GIEMSA HP KI			IT	
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3

SECTION 14 TRANSPORT INFORMATIO)N
Transporting/shipment by road (ADR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
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:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3



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Trading name:	DI	FFERENTIATING REAG	ENT FOR GIEMSA H	IP KIT	
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3

Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTIO	ON 15. Regulatory informa	ation
15.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 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	

SECTI	ON 16. Other information	
16.1	Indication of changes:	-



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Trading name:	DIFF	ERENTIATING REAG	ENT FOR GIEMSA HP K	IT I	
Product code:	RGHP-OT-X**	Revision date:	12 July 2019	Version:	3

		PBT	Stable, bioaccumulative and toxic	
		vPvB	Strongly stable and strongly bioaccumulative.	
16.2	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%	
		LC ₅₀	Lethal concentration, 50%	
		TCOJ	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure (1272/2008 (CLP)	ure used to derive the classification for mixture according to Regulation (EC)		
Classific	cation	Classification procedure		
_		-		
16.5.	Relevant H statements (numb	er and full text)		
	H: H225	Highly flammal	ble liquid and vapor.	
16.6.	Training advice:	-		
		** "X" in the pr	oduct code marks different volumes (different packagings of	
16.7.	Further information:		ponsible for consequences in case of failure to comply with use or improper use of the product described in this data sheet.	

ANNEX: Exposure	scenario	resulting	to chemical	safety assessment	



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Trade name:	GIEMSA SOLUTION				
Product code:	GM-OT-X**	Date of compilation:	22 Dec 2022	Version:	8

1.1.	Product identifier				
	Trade name:	GIEMSA SOLU	JTION		
	Chemical name:	-			
	Catalogue number:	GM-OT-X**			
1.2.	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:	_	n hematology, cytology and staining sections of corgans in histopathology.		
	Uses advised against:	Only the identified uses are advised.			
	Reason why uses advised against:	device, registe	s intended for use only as an <i>in vitro</i> diagnostic medical ered at the Agency for Medicinal Products and Medical here is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:	BioGnost Ltd.			
	Address:	Medjugorska	59, Zagreb		
	Telephone number:	+385 1 24099	997		
	Telefax:	+385 1 2404039			
	e-mail of competent person:	msds@biognost.hr			
	National contact:				
1.4.	Emergency telephone numbers				
	National Protection and Rescue	Directorate:	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 Regulation (EC) No	1272/2008 (CLP)			
	Hazard class and category code:	Hazard statement*:			
	Flam. Liq. 2	H225			
	Acute Tox. 3	H301			
	Acute Tox. 3	H311			
	Acute Tox. 3	H331			
	STOT SE 1	H370			
2.1.2.	Additional information				
	-				
* For fu	ıll text of Hazard- and EU Hazard-statements: sec	e SECTION 16			
2.2.	Label elements				



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	Product identification:	GIEMSA SOLUTION
	Identification number:	-
	Authorisation number:	_
	Hazard pictograms:	GHS08
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor. H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. H370 Causes damage to organs (eyes).
	Precautionary statements:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves, protective clothing, eye protection, face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Prop No known endocrine disrup Results of PBT and vPvB a PBT or a vPvB.	



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Trade name:	GIEMSA SOLUTION				
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SECTION 3. Co	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)			
67-56-1/ 200-659-6/ 603-001-00-X	01-2119433307- 44-xxxx	50 - 55 %	methanol	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370			

4.1.	Description of first aid m	neasures
	General notes:	First aider needs to protect himself.
	Following inhalation:	Carry the afflicted person out for fresh air, place them in half lying position and calm them down. If breathing stops, immediately apply artificial respiration, if necessary also oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration.
	Following skin contact:	Remove contaminated clothing. Wash with plenty of water and soap 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 with water and expectorate. Make the afflicted person drink one glass (100 ml) of 40% ethanol (adult dose). Call a doctor immediately (mention methanol ingestion). Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again (approx. 0.3 ml of a 40% alcoholic beverage/kg body weight/hour). Do not attempt to neutralise.
	Self-protection of the first aider	Avoid direct contact with the chemical; use appropriate protective equipment described in Section 8.
4.2.	Most important sympto	ms and effects, both acute and delayed
	Following inhalation:	Irritation to the airways and possible damage to the lung probably only through very high vapor concentrations, then even absorptive-toxic effects.
	Following skin contact:	Minor/no irritation, degreasing action, following massive contact watch for danger of skin absorption and possibly delayed onset of systemic effects.
	Following eye contact:	Slight through to moderate irritation due to the liquid and concentrated vapors, conjunctivitis, later chemosis, apparently minor probability of cornea damage, later occurring visual disturbances are caused not primarily through local contact but are systemically related (following absorption).
	Following ingestion:	Stomach and bowel irritation, feeling unwell, nausea, vomiting, strong abdominal pain. Absorption may cause toxic effects.



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4.3.	Indication of any immediate medical attention and special treatment needed
	_

SECTI	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	water spray, foam, dry powder, CO ₂			
	Unsuitable extinguishing media:	No information available			
5.2.	Special hazards arising from the su	bstance or mixture			
	Hazardous by products of fire:	Combustible. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air at ambient temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.			
5.3.	Advice for firefighters	Advice for firefighters			
	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.				
5.4.	Additional information				
	Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.				

SECTIO	ON 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: Do not breathe vapours, aerosols. Avoid substance contact. Ensuradequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergence procedures, consult an expert.s			
	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 let product enter drains. Risk of explosion.			
6.3.	Methods and materials for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Cover drains. Collect, bind and pump off spills.		



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Trade name:	GIEMSA SOLUTION				
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6.3.2.	For cleaning:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly close impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministr of Environmental and Nature Protection. After disposal of the products, wash th area and and involved materials with water.			
6.3.3.	Other information:	Do not use tools that may cause sparks.			
6.4.	Reference to other sections				
	See Section 7 for information on safe handling.				
	See Section 8 for information on personal protective equipment.				
	See Section 13 for disposal information.				

SECTIO	ON 7. Handling and storage		
7.1.	Precautions for safe handling		
7.1.1.	Protection measures		
	Measures for fire prevention:	Use in well ventilated storage rooms. Keep away from sources of heat and ignition and direct sunlight. Do not smoke. Take precautionary measures against static discharge.	
	Measures for preventing spray and dust formation	Secure proper ventilation. Prevent formation of aerosols.	
	Environmental precautions:	Prevent spilling into the sewage system and waterways.	
	Other measures:	Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:		
	Do not eat, drink or smoke in the workspace. Thor	roughly wash hands after work and before eating.	
7.2.	Conditions for safe storage, including any incomp	atibilities	
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.	
	Packaging materials:	Manufacturer's original packaging.	
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.	
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.	



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	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. Exposu	re contr	ols/persona	l protec	tion				
8.1. Control par	ameters							
Substance		CAS N	Occupational e CAS No values/short t				Biological limit values	
				ppm	mg/m³		-	
Methanol 67-56-1		200	260	(7.0 mg/	nol/mol of creatinine* 'g of creatinine*), shift urinary excretion			
* For all results perta consideration	ining cre	eatinine leve	ls, creatii	nine concentrati	on < 0.5 g/l and	d > 3.0 g/	I may not be taken into	
Substance: -								
EC No: -		CAS No:	_					
DNEL								
				Industrial				
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local		Chronic effect systemic	
Oral	-		-		-		-	
Inhalation	260 m (metha	•	260 mg (metha	•	260 mg/m³ (methanol)		260 mg/m³ (methanol)	
Dermal	-		40 mg/	'kg (methanol)			40 mg/kg (methanol)	
Critical physical para	meters: s	solubility, fla	mmabili	ty, corrosivity:		-		
				Consumer	·			
Route of Acute exposure: effect local			Acute effect systemic		Chron effect lo	-	Chronic effect systemic	
Oral	-		8 mg/kg (methanol)		-		8 mg/kg (methanol)	
Inhalation	50 mg (metha		50 mg/m³ (methanol)		50 mg/m ³ (methanol)		50 mg/m ³ (methanol)	
Dermal - 8 mg/kg		g (methanol)			8 mg/kg (methanol)			
PNEC								



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Environmental protection target			PNEC		
Fresh wat	er		154 mg/l (methanol)		
Freshwate	er sediments		570.4 mg/kg (methanol)		
Marine w	ater		15.4 mg/l (methanol)		
Marine se	ediments		No information available		
Food chai	in		No information available		
Microorga	anisms in sewage treatment		100 mg/l (methanol)		
Soil (agric	cultural)		23.5 mg/kg (methanol)		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses:	prot	the product in well ventilated rooms. Use personal ective equipment. Do not eat, drink or smoke in the cspace.		
	Structural measures to prevent exposure:	No i	nformation available		
	Organisational measures to prevent exposure:	_	anization of work in order to reduce other worker's ence during work process.		
	Technical measures to prevent exposure:		re proper workspace ventilation in order to keep centration levels in air below permitted levels.		
8.2.2.	Personal protection equipment	·			
8.2.2.1.	Eye and face protection:	prot	eshield and safety glasses. Use equipment for eye ection tested and approved under appropriate government dards such as EN 166(EU).		
8.2.2.2.	Skin protection:				
	Hand protection:	spec EN3 Full	protective gloves to be used must comply with the cification of EC Directive 2016/425 and the related standard 74. contact: Glove material: butyl rubber Glove thickness: 0.70 mm Break through time: > 480 min sh contact: Gloves material: viton (R) Glove thickness: 0.70 mm Break through time: > 120 min		



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	Technical measures to prevent exposure:	See Section 6
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Structural measures to prevent exposure:	Use modern equipment. Do not let product enter drains. Risk of explosion.
	Substance/mixture related measures to prevent exposure:	See Section 6
8.2.3.	Environmental exposure controls	
8.2.2.4.	Thermal hazards:	No information available
8.2.2.3.	Respiratory protection:	Required when vapours/aerosols are generated. Recommended filter type: gas filter AX, colour code brown (EN 371). The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.
	Other skin protection:	Complete antistatic suit protecting against chemicals (EN 13688). The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace and shoes that cover the entire foot.

9.1.	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	blue-purple	No information available
	Odour/odour threshold:	methanol like/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:	65 °C (at 1.013 hPa)	No information available
	Flammability:	No information available	No information available
	Lover and upper explosion limit:	lower: 6 % (V) methanol upper: 36.5 % (V) methanol	No information available
	Flash point:	24 °C	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	6.8 – 7.2 (20 °C)	No information available
	Kinematic viscosity:	No information available	No information available



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	Solubility:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Vapour pressure:	128 hPa (20 °C)	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	ON 10.: Stability and reactivity	
10.1.	Reactivity:	Vapours may form explosive mixture with air.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3.	Possibility of hazardous reactions:	Risk of explosion with: Oxidizing agents, alkali metals, nitric acid, sulphuric acid, hydrogen peroxide, permanganic acid, sodium hypochlorite. The substance can react dangerously with: halogens, oxidizing agents, reducing agents, acids, acetyl bromide, alkylaluminium solutions, beryllium hydride, chloroform, chromium(VI)-oxide, cyanuric chloride, alkaline-earth metals, magnesium splinters, phosphorus trioxide, Raneynickel/hydrogenation, acid anhydrides, acid halogenides, tetrachloromethane/light metals.
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.
10.5.	Incompatible materials:	Various plastics, magnesium, zinc alloys, aluminium and galvanised iron.
10.6.	Hazardous decomposition products:	No information available.

SECTION 11. Toxicological information										
11.1. Informa	Information on hazard classes as defined in Regulation (EC) No 1272/2008									
Acute to	Acute toxicity:									
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results					
Oral:	No information available	rat	LD ₅₀	-	125.13 mg/kg (methanol)					
Dermal:	No information available	rabbit	LD ₅₀	-	375.13 mg/kg (methanol)					



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Product code:	de: GM-OT-X** Date of compilation: 22 Dec 2022				Version: 8		
Inhalation:	No information available	rat	LC ₅₀	4 h	3.88 mg/l (methanol)		
Specific	target organ toxicity -	single exposure ((STOT-SE):				
i •	Specific	effects	Tai	rget organ	Note		
Oral:	No information avail	lable	No informa	ation available	-		
Dermal:	No information avail	able	No informa	ation available	-		
Inhalation:	No information avail	able	Eyes		mixture causes damage to organs		
Aspiratio	on hazard:	No info	ormation availab	ole			
Irritation	and corrosion						
	Exposure tim	ne Species	s Evaluatio	on Method	Note		
Skin corrosion/irritatio	on -	-	-	-	drying-out effect resulting in rough and chapped skin		
Serious eye damage/irritation	-	-	-	-	irritations of mucous membranes		
Sensitiza	ation						
Skin sensitization	1	sensitization.					
Respiratory sensitization:	No information						
Sympton	ms related to the physi	ical. chemical and	toxicological c	haracteristics:			
Oral exposure:	. ,	irritation, acidosis	s, drop in blood	d pressure, feeling	g unwell, vomiting, strong kidney, cardiac.		
Dermal exposure:	•	itation, defatting;	prolonged exp		absorption and greater		
Inhalation exposure:	Airways irritation and dizziness, drowsiness		_				
Eye exposure:		dness, irreversible	•		s, lesser possibility of /isual impairments may		
Donasta	d doco tovicity (sub-s-	uto cubebronie -	hronis)		_		
кереате	d dose toxicity (subact		Species	Method	Evaluation No		



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

C 'C' '		epeated exposure	(CTOT DE)
Snacitic target or	an tovicity - re	anastad avnaciira	(
Specific faract of	uali luxicity - ir	enegred evnoyale	13101-1161.

	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	-



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	CNAD affects (agging aggins), and to aggins to aggins to aggins to								
	CMR effects (carcinogenicity, mutagenicity, 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							
	Summary of evaluation of the CMR properties:	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:								
	-								

SECTION	12. Ecolo	gical information

12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Lepomis macrochirus (Bluegill sunfish)	No information available	No informatio n available	15.400 mg/l (methanol)
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	No informatio n available	>18.260 mg/l (methanol)
Algae/aquatic plants:	IC ₅₀	8 days	Pseudokirchneriella subcapitata (green algae)	No information available	No informatio n available	22.000 mg/l (methanol)
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 informatio n available	-



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Trade name:					GIEMSA	SOLUT	ION			
Product code	<u>;</u>	GM-OT-X**	ſ	Date of compilation: 22 Dec 2022		22 Dec 2022		rsion:	8	
Crustacea:		EC ₅₀	48 hou	rc	o information ailable	No inforr availa	mation	No informatio n available		
Algae/aquatic plants:		IC ₅₀	72 hou	rc	o information ailable	No inforr availa	mation	No informatio n available	-	
Other organisr	ms	-	_	-		-		_	-	
		e and degrada	bility							
Abiot	1	gradation	16.15				**************************************	- I .:		
N4 : .		Degradation h			Method		N1 . C	Evaluation		Note
Marine water		information a			information ava			ormation av		-
Fresh water		information a			information ava			No information av		-
Air Soil	•	information a			information ava			ormation av	on available -	
3011	INO	iiiiOiiiiatiOii a	valiable	INC) illioittiation ava	парте	INO IIII	Offilation av	/allable	-
Biode	grad	ation								
% Degradation		Time (da	ays)		Method	E	valuation	l	No	te
-		-		-		No in availa	formation ble	1		
12.3. Bioac	cumı	ulative potenti	al							
Octar	nol-w	ater partition	coefficie	ent (log	Kow)					
Value	Cor	ncentration	рН	°C	Method		Evaluat	ion	N	ote
_	No availa	information able	-	-	-		o informa railable	tion -		
Bioco	ncen	tration Factor	(BCF)							
Value		Spec	ies		Method		Evaluation	1	No	ote
No information available	n	No informati available	on		No information No inform available available				informa iilable	tion



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	Chr	onic ecotoxicity	У								
	Va	lue	Dose	Exposure time		Species	Me	thod	Eval	uation	Note
Chroni	c toxio	city on fish	LC ₅₀	No information available		lo Iformation vailable	No inform availat		No infor		-
Chronic toxicity on crustacea (Daphnia)		EC ₅₀	No information available	1	lo Iformation vailable	intormation		No infor		-	
12.4.	Mol	oility in soil									
	Kno	wn or predicte	d distribut	ion in enviro	nmen	tal compartn	nents:				
	No	information av	ailable								
	Surf	ace tension:									
		Value		°C		Concentrati	on		Metho	od	Note
			No i available	nformation	No ii	nformation a	vailable	No information available		available	-
	A -1-										
	Ads	orption / deso									
Гransр	ort	A/D coef Henry's co		log Ko		Evaporatio		Me	thod	No	te
Soil-W	ater	No in available	formation	No inform available	ation			No info availabl	ormation - ole		
Water-	Water-Air No informa		formation	No information available		No information available		No information available		-	
Soil-Air No in available		formation	No inform available	No information No information available available available		-					
12.5.		ults of PBT and									
		stance(s) in the		<u> </u>	eet the	e criteria for	PBT or vi	PvB			
2.6.	Endocrine disrupting properties										



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12.7.	Other adverse effects
	No adverse effects are expected.
	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Waste material must be disposed of according to the national and local rules and regulations. Do not mix with other sorts of waste. Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste codes/waste designations according to Low:
	15 01 10*: packaging that contains residual hazardous substances or is contaminated with hazardous substances
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. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	Disposal must be made according to official regulations.
SECTIO	N 14. Transport information
	Transporting/chipment by road (ADR)

Transporting/shipment by road (ADR)			
UN number:	1992		
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)		
Transport hazard class(es):	3 (6.1)		
Packing group:	III		
Environmental hazards:	-		
Special precautions for user:	-		



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Transporting/shipment by rail (RI	D)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transport hazard class(es):	3 (6.1)
Packing group:	III
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inland	waterways (ADN)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transport hazard class(es):	3 (6.1)
Packing group:	III
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transport hazard class(es):	3 (6.1)
Packing group:	III
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	
Transporting/shipment by air (ICA	AO-TI/IATA-DGR)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transport hazard class(es):	3 (6.1)
Packing group:	III
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

SECTION	SECTION 15. Regulatory information				
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				



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	Authorisations and/or res	trictions on use
	Authorisations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council 18 December 2006 concerning the Registration, Evaluation, Authorisation a Restriction of Chemicals (REACH), establishing a European Chemicals Agen amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/ and Commission Regulation (EC) No 1488/94 as well as Council Direct 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC a 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 Ag 2004 on the limitation of emissions of volatile organic compounds due to the use organic solvents in certain paints and varnishes and vehicle refinishing products a amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safe 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 December 2008 on classification, labelling and packaging of substances a mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, a amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certadangerous substances, mixtures and articles (Annex XVII);
	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
2.	Chemical safety assessme	ent
	None	

SECTION 16. Other information			
16.1.	Indication of changes:	-	



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16.2.		previations and pnyms:	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:		-			
16.4.	16.4. Classification and procedure 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)			
Classifi	catior	1	Classification procedure			
_			-			
16.5.	Rele	evant H statements (num	ber and full text)			
		225	Highly flammable liquid and vapor.			
	H:	301+311+331	Toxic if swallowed, in contact with skin or if inhaled.			
		370	Causes damage to organs (eyes).			
16.6.	Training advice:		-			
16.7.	Further information:		** "X" in the product code marks different volumes (different packaging 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
-