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Trading name:	HISTANOL 95			
Product code:	H95-X**	Revision date:	13 May 2019	Version:

SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier	, , , , , , , , , , , , , , , , , , ,			
	Trading name:	HISTANOL	95		
	Chemical name:	Ethyl alcohol			
	Catalogue number:	H95-X**			
1.2	Relevant identified us	es of the subs	tance or m	nixture and uses advised against	
	Uses:		For use	in histocytology and cytology sample processing.	
	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 person:		msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone number				
	National Protection a	National Protection and Rescue Dire		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 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	I text of Hazard- and EU Hazard-	statements: see S	SECTION 16				
2.2	Label elements						
	Product identification: HISTANOL 95						
	Identification number: -						
	Authorization number:	-					



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	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. 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)			
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- xxxx	~ 95%	ethanol	Flam. Liq. 2; H225			

SECT	SECTION 4. First aid measures				
4.1	Description of first aid measur	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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	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 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 Large fire - water spray or alcohol resistant foam				
		Water with full jet				
5.2	Special hazards arising from the sub	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	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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	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.	
	See Section 8 for information	on personal protection equipment.	
	See Section 13 for disposal information.		

SECTIO	CTION 7. Handling and storage						
7.1	Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire:	leasures to prevent fire:					
	Measures to prevent aerosol and dust generatio	n:	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. The	oroughly 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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	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 con	trols/perso	nal pro	tection				
8.1 Contro	l parameter	rameters						
						exposure limit		
Substai	nce	CA	S No	value	es/short	term values	Biological limit values	
				рр	m	mg/m³		
Ethanol		64	-17-5	100	0/-	1900/-	-	
Substance name	<u>-</u>		-			,		
EC No:	-	CAS No):	-				
DNEL								
				Indus	strial			
Route of	А	cute	А	cute		Chronic	Chronic	
exposure:	effe	ct local	effect	systemic		effect local	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		950 mg/m³ (ethanol)	
Dermal	-		-		-		343 mg/kg (ethanol)	
Critical physical	parameters	: solubility,	flammal	oility, corros	sivity:	_		
				Consu	umer			
Route of		Acute	Δ	cute		Chronic	Chronic	
exposure:	eff	ect local	effect	systemic		effect local	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		114 mg/m ³ (ethanol)	
Dermal	-		-		-		206 mg/kg (ethanol)	
PNEC								



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Environmental protection target	PNEC	
Fresh water	0.96 mg/l (ethanol)	
Freshwater sediments	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	s		
	Substance/mixture related measure 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 preve exposure:	nt	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent exp	Secure proper workspace ventilation in order to concentration levels in air below permitted level stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection			
	Hand protection:	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 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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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	

SECTI	SECTION 9. Physical and chemical properties					
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;	-114.5°C	No information available			
	Initial boiling point and boiling range:	78 °C	No information available			
	Flash point:	13 °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:	lower: 3.5 Vol % upper: 15 Vol %	No information available			
	Vapour pressure:	59 hPa	No information available			
	Vapour density:	No information available	No information available			
	Relative density:	0.711 - 0.87778 (20°C)	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			



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	Auto-ignition temperature:	Product is not selfigniting	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	1.2 mPas (dynamic at 20°C)	No information available
	Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	No information available
	Oxidising properties:	No information available	No information available
9.2	Other information		
	Ignition temperature: 425 °C		

SECTIO	ECTION 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.					

11.1 Infor	mation on toxicolog	jical effects			
Acut	e toxicity:				
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results
Oral:	_	rat (ethanol)	LD ₅₀	-	7.060 mg/kg
Dermal:	-	-	-	_	_
Inhalation:	-	rat (ethanol)	LC ₅₀	4 h	20.000 mg/l
C	:c: - + + +	tate a standard and a	(CTOT CE):		
Spec	ific target organ tox			organ	Note
i •	Sp	pecific effects	Target o	-	Note
Spec		pecific effects		-	Note
: · ·	Sp	pecific effects	Target o	available -	Note
Oral:	Sp No informati	pecific effects ion available ion available	Target o	available - available -	Note
Oral: Dermal:	No informati	pecific effects ion available ion available	No information a	available - available -	Note



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Irritation	n and corr	osion					
	8	Exposur	e time	Species	Evaluation	Method	Note
Skin corrosion/irritation	on:		-		-	-	-
Serious eye			-		-	-	-
Sensitiza	ation						
Skin sensitization	n:	No inf	ormation avail	able.			
Respiratory sensi	tization:	No inf	ormation avail	able.			
Sympto	ms related	l to the nh	weical chamic	al and toxicolog	nical characteri	ctics	
Oral exposure:		•	on available.	ai ailu toxicolog	gical characteri	Stics	
Dermal exposure			on available.				
Inhalation exposure			on available.				
			on available.				
Eye exposure:	INO	mnomiali	on available.				
Repeate	ed dose to	xicity (sub	acute, subchro	onic, chronic)			
: •		ose	Exposure time	Species	Method	Evaluati	on Note
Subacute oral	No info	ormation	No information available	No information available	No information available	No informa availabl	
Subacute dermal	No info	ormation	No information available	No information available	No information available	No informa availabl	
Subacute inhalation	No info	ormation	No information available	No information available	No information available	No informa availabl	
Subchronic oral	No info	ormation	No information available	No information available	No information available	No informa availabl	
Subchronic dermal	No info	ormation	No information available	No information available	No information available	No informa availabl	
Subchronic inhalation	No info	ormation	No information available	No information available	No information available	No informa availabl	
Chronic oral	No info	ormation	No information available	No information available	No information available	No informa availabl	



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Trading name:						ANOL 95				
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Chronic dermal	No information available No information available		mal No information information information		formation	No No information available available		on	n -	
Chronic inhalation		o information railable No available			o formation vailable	No information available	No informati available	on	-	
Specific	target	organ toxicit	y – repeate	ed expo	sure (STOT	RE):				
: •			Specific e		<u> </u>	Target o	rgan		Note	
Subacute oral	·					No information	n available	-		
Subacute derma		No informa	ition availa	ble		No information	n available	-		
Subacute inhalat	Subacute inhalation No information available					No information	n available	-		
Subchronic oral No information availa				ble		No information	n available	-		
Subchronic dermal No information available				ble		No information	n available	-		
Subchronic inhalation No information available				ble		No information	n available	-		
Chronic oral No information available				ble		No information	n available	-		
Chronic dermal No information available				ble		No information	n available	-		
Chronic inhalation	n	No informa	ition availa	ble		No information	n available	-		
CMR ef	fects (ca	arcinogenicit	y; mutagen	nicity; re	eproductive	toxicity)				
Carcino	genicity	y:		Bas	sed on avail	able data, the cla	ssification c	riteri	a are not met.	
Mutage	nicity <i>ii</i>	n vitro:				able data, the cla				
Genoto	xicity:			Bas	sed on avail	able data, the cla	ssification o	riteri	a are not met.	
Mutage	nicity <i>ii</i>	n vivo:		Bas	sed on avail	able data, the cla	ssification c	riteri	a are not met.	
Germ ce	ell muta	agenicity:				able data, the cla				
Reprod	uctive t	oxicity:		Bas	sed on avail	able data, the cla	ssification c	riteri	a are not met.	
Summa propert	-	evaluation	of the	CMR	Based on met.	available data, t	he classifica	ation	criteria are not	
11.2 Practica	l exper	iences:								
Classific	ation o	bservations:			No inform	ation available				
Other o	bservat	tions:			No inform	ation available				
11.3 General	notes:									
- General	notes.									



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SECTION 12. E	cologic	cal informat	ion						
12.1 Toxicit	у								
Acute (short-te toxicity	rm)	Dose	Exposur time	e	Species	Method	Eva	aluation	Note
Fish		LC ₅₀	96 hours		No information available	No information available	No inforr availa	mation Ible	-
Crustacea:	ustacea: EC ₅₀		48 hours		No information available	No information available	No inforr availa	mation Ible	-
Algae/aquatic p	olants	IC ₅₀	4 days		No information available	No information available	No inforr availa	mation Ible	-
Other organism	ıs	-	-		-	-	-		-
Chronic (long-t	erm)	Dose	Exposur time	e	Species	Method	Eva	aluation	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 p	olants	IC ₅₀	72 hours		No information available	No information available	No information available		-
Other organism	ıs	_	-		-	-	-		-
		nd degradab	ility						
Abiotic	degra	dation		1		1			
	De	gradation ha	alf-lives		Method	Evaluatio	n		Note
Marine water	No ir	nformation a	vailable		information ailable	No informatio available	on	-	
Fresh water	No in	nformation a	vailable		information ailable	No information available		-	
Air	No ir	nformation a	vailable		information ailable	No information available		-	
Soil No ir		ntormation available			information ailable	No information available		-	
ï	•								
i	gradatio								
% Degradation	on	Time (c	lays)		Method	Evaluation	on		Note



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									-				
No info	ormation le	No availab	inform le	nation	n No information available		No information available		1	No information available			
		:			1		:						
12.3	Bioaccumu	lative pot	ential										
	Octanol-w	ater partit	ion coeff	icient (log Kow)							
Valu	ie Cor	ncentratio	n p	Н	°C	Ме	ethod		Evalu	ation		Note	
-	_		-		_	-		-			-		
	Bioconcen	tration fac	tor (BCF)										
٧	/alue	S	pecies		Method		Evaluation			Note			
No info	No information No information available		ation	on No information available		No information available		-					
availabi	iC	available			availab			avaii	abie				
	Chronic ec	otovicity											
	Cilionic ec	Otoxicity		Evn	osure								
	Value		Dose		ime	Spe	ecies	Me	ethod	Evalı	uation	Note	е
				No		No		No		No			
Chronic	toxicity on	fish L	.C ₅₀	1	mation		mation		mation	inform		-	
				availa	able	availa	ible	avail	able	availal	ole		
Chronic	toxicity on		C ₅₀	No infor	mation	No	mation	No infor	mation	No inform	nation	_	
crustac	ea (<i>Daphnia</i>)	.050	availa		availa		avail		availal			
		i		i		!				i			
12.4	Mobility in	soil											
	Known or		distributi	on in e	environm	nental c	ompar	tments	:				
	No inform	ation avail	able				······································						
	Surface ter												
	Value		°C	C	oncentra	ation		Met	hod			Note	
	No	No n infor	mation		informa		No in	format					
	informatio available	n infori availa		ava	ilable		availa	ble		-			



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	Adsorption / desorption					
Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note	
Soil-wate	r No information available	No information available	No information available	No information available	-	
Water-air	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 l	Results of PBT and vPvB asset	ssment				
	Not applicable.					
12.6	Other adverse effects					
	No further relevant information	on available.				
SECTION	13. Disposal consideration	s				
13.1	Waste treatment methods					
1711	Due do et /De also sin e dien e e	ı.				
13.1.1.	Product/Packaging disposal Submit for disposal to the l		rized by the Ministr	v of Environmental	and Nature	
	Protection.	egai person autho	Tized by the Willist	y or Environmental	and Nature	
13.1.2.	Waste codes/waste designa	ntions according to	Law:			
	Packaging that contains res	idual hazardous sı	ubstances or is cont	aminated with haza	ardous substances	
13.1.3.	Waste treatment – relevant	information.				
13.1.3.	No information available	momation.				
	:					
13.1.4.	Sewage disposal – relevant	information:				
	Waste must not be dispose	d of into the sewa	ge system.			
13.1.5.	Other disposal recommend	ations:				
	Do not dispose of the prod authorized by the ministry i the packaging to the collec	n charge. Do not o	dispose of the packa	aging into the sewa		



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13.1.6. Relevant Community provision	s:
Disposal must be made accord	ling to official regulations.
SECTION 14 TRANSPORT INFORMATIO	ON CONTRACTOR OF THE CONTRACTO
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 (II	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



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UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Special precautions for user.	
Further information: -	

SECTIO	ON 15. Regulatory inform	ation						
15.1	Safety, health and enviro	nmental 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 19 guideline)	999/13/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							

SECTIO	N 16. Other information	
16.1	Indication of changes:	-



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Trading name:	HISTANOL 95					
Product code:	H95-X**	Revision date:	13 May 2019	Version:		

		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:	Manufacturer's MSDS file.			
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)			
Classification		Classification procedure			
_		-			
16.5.	Relevant H statements (number	er and full text)			
	H: H225	Highly flammable liquid and vapor.			
16.6.	Training advice:	-			
		** "X" in the product code marks different volumes (different packagings of the product)			
16.7.	i	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:	HEMATOXYLIN HP, PAP 1A					
Product code:	HEMHP-OT-X**	Revision date:	04.06.2019.	Version:	5	

SECTI	ON 1 IDENTIFICATION	OF THE SU	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING			
1.1.	Product identifier						
	Trading name:	HEMATO:	IEMATOXYLIN HP, PAP 1A				
	Chemical name:	-					
	Catalogue number:	НЕМНР-С	HEMHP-OT-X**				
1.2.	Relevant identified use	es of the sub	of the substance or mixture and uses advised against				
	Uses:	Modified hematoxylin acc. to Harris for nuclear staining acc. to Papanicolaou.					
	Uses advised against:		dentified uses are advised.				
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic against: medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes				
1.3.	Details of the supplier	of the safet	y data sheet				
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska	59, Zagreb			
	Telephone number:		+385 1 24099	997			
	Fax no.:		+385 1 24040	039			
	e-mail of competent p	erson:	msds@biogn	<u>ost.hr</u>			
	National contact:		-				
1.4.	Emergency telephone	number					
	National Protection ar	nd Rescue D	irectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	ON 2 HAZARDS INFORMAT	ION						
2.1.	Classification of the substa	Classification of the substance or mixture						
2.1.1.	Classification (REGULATIO	Classification (REGULATION (EC) No. 1272/2008 (CLP)						
	Hazard class and c	Hazard class and category code: Hazard statements*:						
	Eye Irr. 2 H319							
2.1.2.	Additional information							
	-							
*For fu	ıll text of Hazard- and EU Haz	zard-statements: see S	Section 16					
2.2.	Classification according to	EC Directive Nr. 1272	2/2008 CLP)					
	Product identification:	HEMATOXYLIN I	HP, PAP 1A					
	Identification number:	ication number: -						
	Authorization no.:	-						

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Trading name:	HEMATOXYLIN HP, PAP 1A					
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	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statements:	H319 Causes serious eye irritation.
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
	Further information:	-
2.3.	Other hazards	
	-	

SECTION 3 CO	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS							
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
107-21-1/ 203-473-3/ 603-027-00-1	01-2119456816- 28-xxxx	≤ 15%	ethylene glycol	Acute Tox. 4, H302				
17927-65-0/ 605-852-2/ -	-	< 10%	aluminum sulfate octadecahydrate	Eye Dam. 1; H318				

SECT	ION 4 FIRST AID MEASURES	
4.1.	Description of first aid measu	res
	General notes:	-
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.

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Trading name:		HEMATOXY	LIN HP, PAP	LA		
Product code:	HEMHP-OT-X**	Revision date:	04.06.2019.	Version:	5	

	Following ingestion:		Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.	
	Self-protection of the first aid	ler: ⁻	Treat symptomatically.	
4.2.	Most important symptoms ar	nd effec	cts, both acute and delayed	
	Following inhalation:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.		
	Following skin contact:	Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure may cause drying, cracking and tingling sensation of skin.		
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.		
	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.		
4.3.	Indication of any immediate medical attention and special treatment needed			
	-			

SECTIO	ECTION 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 jet			
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. Cool closed containers exposed to fire with water spray or vapor.				
5.4.	Additional information				
	Remove sources of heat and ignition Do not contaminate the environment				

SECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		

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Trading name:		HEMATOXY	LIN HP, PAP	LA		
Product code:	HEMHP-OT-X**	Revision date:	04.06.2019.	Version:	5	

	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Wear protective equipment (s	see Section 8).		
6.2.	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and material for cor	ntainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). 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:	-		
6.4.	Reference to other sections			
	-			

SECTIO	ON 7 HANDLING AN STORAGE				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. 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:	-			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Tho	roughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incomp	atibilities			
	Technical measures and storage conditions:	Geep in tightly closed and upright set containers in a well entilated storage rooms, and away from sources of heat, unlight, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.			

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Trading name:		НЕМАТОХҮ	LIN HP, PAP	LA	
Product code:	HEMHP-OT-X**	Revision date:	04.06.2019.	Version:	5

	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 9).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8 EXPOS	URE CON	TROLS/PERS	ONAL	PROTECTION			
8.1. Control pa	rameters						
Substance		CAS No			exposure limit term values	Bio	ological limit values
				ppm	mg/m ³		
Ethylene glycol		107-21	-1	20/40	52/104	No infor	mation available
Substance - name:							
EC No: -		CAS No:	-				
DNEL							
				Industrial			
Route of exposure:	-	Acute ect local	effe	Acute ect systemic	Chronic effect local		Chronic effect systemic
Oral	-		-	·	-		-
Inhalation	-		-		35 mg/ kg (ethylene glycol)		-
Dermal	-		-	-			106 mg/kg (ethylene glycol)
Critical physical par	ameters:	solubility, flan	nmabili	ty, corrosivity:	-		•
				Consumer	·		
Route of exposure:		Acute ect local	Acute effect systemic		Chronic effect local		Chronic effect systemic
Oral	_		_		_		_

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Trading	name:	HEMATOXYLIN HP, PAP 1A							
Product	code:	HEMHP-OT-X**	•	Revisio	n date:	04.06.2019. Versi	on:	5	
To be a least one						7 mg/kg			
Inhalation	1	-	-			(ethylene glycol)	-		
Dermal	Permal					-	53 mg. (ethyle	/kg ene glycol)	
PNEC			·						
Environm	ental prot	ection target			PNEC				
Fresh wat	er				10 mg/l	(ethylene glycol)			
Freshwate	er sedime	nts			37 mg/k	g (ethylene glycol)			
Marine w	ater				1 mg/l (e	thylene glycol)			
Marine se	ediments				3.7 mh/k	g (ethylene glycol)			
Food cha	in				No infor	mation available			
Microorga	anisms in	sewage treatment			199.5 mg	g/l (ethylene glycol)			
Soil (agric	cultural)				1.53 mg/kg (ethylene glycol)				
Air					No infor	mation available			
8.2.	Exposi	ure controls							
8.2.1.	Engine	eering measures							
	measu	nnce/mixture relate res to prevent exp identified uses:		equipment. Do not eat, drink or smoke in the workspace.					
	Structi exposi	ural measures to pi ure:	revent						
		isational measures nt exposure:	to	Organization of work in order to reduce other worker's influence during work process.				ker's influence	
	Techni exposi	ical measures to pr ure:	event		cure proper workspace ventilation in order to keep ncentration levels in air below permitted levels.				
8.2.2.	Persor	nal protection equi	pment						
8.2.2.1.	Eye an	d face protection:		Safety g	lasses tha	t stick to face (preventi	ng splashi	ing) (EN 166) or	
8.2.2.2.	Skin p	rotection							
	Hand	protection:		ard EN 374 Glove m Glove th	4. naterial: ni nickness: ≥	e according to the EU Di trile rubber 20.50 mm ne: >480 min	rective 20	016/425/EEC and	
	Other	skin protection:		antistatic	ntistatic clothing made of natural fibers (such as cotton) with long (EN 13034), and shoes that cover the entire foot (EN 10335).				

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Trading name:	HEMATOXYLIN HP, PAP 1A					
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8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	ormation available			
8.2.3.	Environmental exposure	controls				
	Substance/mixture relate measures to prevent exp		re: See Section 6			
	Structural measures to prescribe exposure:	revent	Use modern equipment.			
	Organisational measures prevent exposure:	to Adapt the work process to the required working conditions of workplace.				
	Technical measures to pr exposure:	event	See Section 6			

1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Color:	red-purple	No information available				
	Odor:	No information available	No information available				
	Odor threshold:	No information available	No information available				
	рН:	2.3 - 2.5	No information available				
	Melting point / freezing point;	No information available	No information available				
	Initial boiling point and boiling range:	No information available	No information available				
	Flash point:	No information available	No information available				
	Evaporation rate:	No information available	No information available				
	Flammability (solid, gas):	No information available	No information available				
	Upper/lower flammability or explosive limits:	No information available	No information available				
	Vapor pressure:	No information available	No information available				
	Vapor 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):	Soluble in water (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				
	Decomposition temperature:	No information available	No information available				

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	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.				
10.3.	Possibility of hazardous reactions:	With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.				
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.				
10.5.	Incompatible materials:	Aluminum.				
10.6.	Hazardous decomposition products:	No information available.				

SECTION 11 TOXIC	OLOGICAL INFORMA	ATION			
11.1. Information	n on toxicological effe	ects			
Acute toxic	ity:				
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure tir	me Results
Oral exposure:	No information available	rat	LD ₅₀	_	7.712 mg/kg (ethylene glycol)
Dermal exposure:	No information available	rabbit	LD ₅₀	-	>3.500mg/kg (ethylene glycol)
Inhalation exposure:	No information available	-	LC ₅₀	_	-
Specific tar	get organ toxicity – si	ingle exposure	(STOT SE):		
	Specif	ic effects	Target (organ	Note
Oral exposure: No information available No information a					-
Dermal exposure: No information available		No informatio	n available	-	
Inhalation exposure	: No information	available	No informatio	n available	_

Respiratory irritation:	No information available
Irritation and corrosion	

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		Exposure t	time S	pecies E	valuation	Method		Note	
Skin irritation:	-	-	rabb	it -		-	Slight irrit	ation (ethylene	
Eye irritation:	•	24 h	rabb	it -		-	Slight irrit	ation (ethylene	
Sensitiza	ntion								
Dermal exposure:		information	available						
Inhalation exposure:		information	available						
Symptor	ns rela	ted to the ph	nysical, chemic	al and toxicol	ogical char	acteristics			
Oral exposure:		sensation; hig In case of vo	nay cause irrita gher levels of o miting, aspirat n may cause s	concentration ion causes co	may cause	e nausea, al	odominal pa	in and vomiting	
Dermal exposure:		•	rritation. After short exposure, resorption effects are not likely. Long-term exposure use drying, cracking and tingling sensation of skin.						
Inhalation exposu	ıro.		of large amounts of vapors in inadequately ventilated perimeter may cause sneezing, headache and nausea.						
Eye exposure:		Direct eye co sensation.	ntact may cau	ise slight to m	oderate irr	itation, lac	rimation and	burning	
Repeate	d dose	toxicity (sub	acute, subchro	onic, chronic)					
1 -		Dose	Exposure time	Species	Metho	od E	valuation	Note	
Subacute oral	No i availa	information ible	No information available	No information available	No inform availab	ation i	lo nformation vailable	-	
Subacute dermal	No information available		No information available	No information available	No inform availab	ation i	lo nformation vailable	-	
Subacute inhalation	No information available		No information available	No information available	No inform availab	ation i	lo nformation vailable	-	
Subchronic oral	No information available		No information available	No information available	No inform availab	ation i	lo nformation vailable	-	
Subchronic dermal			No information available	No information available	No inform availab	ation i	lo nformation vailable	-	

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Trading name:				HEMATO	XYLII	N HP, PAP 1	Α		
Product code:	НЕ	MHP-OT-X	** Re	vision dat	e: C	04.06.2019.	Version:	5	
Subchronic inhalation	No availa	information able	No information available	No information available	on	No information available	No informatio available	on -	
Chronic oral	No availa	information able	No information available	No information available	on	No information available	No informatio available	on -	
Chronic dermal	No availa	information able	No information available	No information	on	No information available	No informatic available	on -	
Chronic inhalation	No availa	information able	No information available	No information	on	No information available	No informatio available	on -	
				•					
Specific	target	organ toxicit	y – repeated e	exposure (S	TOT RE	<u> </u>			
		S	pecific effects			Target org	an	Note	9
Subacute oral		No informa	ation available		No inf	formation ava	ilable	-	
Subacute derma	l	No informa	ation available		No information available -				
Subacute inhalat	ion	No informa	ation available		No int	No information available -			
Subchronic oral		No informa	ation available		No information available -				
Subchronic derm	nal	No informa	ation available		No information available -				
Subchronic inhal	ation	No informa	ation available		No information available -		-		
Chronic oral		No informa	ation available		No information available -		-		
Chronic dermal		No informa	ation available		No information available -		-		
Chronic inhalation	n	No informa	ation available		No int	formation ava	ilable	-	
			y, mutagenicity	· · · · · · · · · · · · · · · · · · ·					
Carcino						mals did not ii			cts.
Mutage		n-vitro:		Current <i>in vitro</i> tests did not indicate mutagenic effects.					
Genoto		•		mation avail					
Mutage						not indicate i	mutagenic ef	tects.	
Germ ce	ell muta	agenicity:		mation avail					
Reprod	uctive t	oxicity:	organs.	ity on rep	roduct	tive organs w	vas determir	ied in repro	oductivo
Summa	ry of ev	aluation of t	he CMR prope	rties: -					
11.2. Practica	l exper	iences:							
Remark	s releva	ant for classif	ication:	No informa	ation a	vailable			

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				<u> </u>	. uge 11 0: 10	
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	Other remarks:	No information available
11.3.	General notes:	
	-	

SECTION 12 ECOLOGICAL INFORMATION:

4 ^		_					
12	'L.		O)	ΧI	CI	it۱	

Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Fish	No information available	72.860 mg/l (ethylene glycol)	-
Crustacea:	EC ₅₀	48 hours	water flea	No information available	>100 mg/l (ethylene glycol)	-
Algae/aquatic plants	IC ₅₀	8 days	algae	No information available	6.500-13.000 mg/l (ethylene glycol)	-
Microorganisms	LC ₅₀	72 hours	-	-	_	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2. Persistence and degradability

Abiotic degradation

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

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	Biodegr	adation								
% Deg	radation	Tim	ne (days)		М	ethod	Evaluat	ion	1	Note
	lo information No information vailable available			lo inform vailable	nation	tion No information available		n No information available		
	8							:		
12.3.	Bioaccu	mulative p	otential							
		coefficier								
Valu	ie C	Concentrat		рН	°C	Method		uation		Note
-	No ava	inform ilable	ation -		_ :	No informatior available	n No infoi available		-	
	D:		·	· · · · · · · · · · · · · · · · · · ·	:		:		:	
	/alue	entration f	•			 Method	Fyolyo	tion		Noto
	ormation	No	Species	rmation			Evaluation		Note	
availab		availab		imation	n No information No information available available		uon	No information available		
	Chronic	ecotoxicit	у							
	Value		Dose		osure ime	Species	Method	Eva	aluation	Note
Chronic	c toxicity o	on fish	LC ₅₀	No infor avail	mation able	No information available	No information available	No inf availal	formation ole	-
	c toxicity o ea (<i>Daphr</i>		EC ₅₀	No infor avail	mation able	No information available	No information available	No inf availal	formation ole	-
12.4.	Mobility	in soil								
14.4.	Mobility		d distrib	ution in 4	environm	nental compart	ments:			
		mation av			-11VII OI III	icital compart				
	INO IIIIOI	mation av	anabic							
	Surface	tension:								



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	No information available		nation information		No information available	No information available		
	Ads	orption / o	desorption					
Transpo		A/D	coefficient 's constant	log Kow	Kow Evaporation rate Met		d	Note
Soil-wa	ter	No available	information	No information available	No information available	No informa available	ition	-
Water-a	air	No available	information	No information available	No information available	No informa available	ition	-
Soil-air		No available	information	No information available	No information available	No informa available	ition	-
12 5	D	Jan of DDT	I D D					
12.5.			and vPvB asses	ssment				
12.5.			and vPvB asses	ssment				
	No	informatio	n available	ssment				
	No Oth	informatio er adverse	n available effects	ssment				
	No Oth	informatio er adverse	n available	ssment				
12.6.	No Oth No	informatio er adverse informatio	n available effects n available					
12.6. SECTIO	Oth No	er adverse informatio	n available effects n available					
12.6.	Oth No	er adverse informatio	n available effects n available					
12.6. SECTIO 13.1.	No Oth No ON 13	er adverse informatio DISPOSA	n available effects n available L CONSIDERA ment methods	TIONS				
12.6. SECTIO 13.1.	No Oth No ON 13 W	er adverse informatio DISPOSA aste treatr	n available effects n available L CONSIDERA ment methods kaging disposa	TIONS	rized by the Ministr	y of Environn	nental a	and Nature
12.6. SECTIO 13.1.	No Oth No ON 13 W Pr Su Pr	er adverse information DISPOSA (aste treatment of the context)	effects n available L CONSIDERA ment methods kaging disposa	TIONS I: egal person autho	·	y of Environn	nental a	and Nature
12.6. SECTIO 13.1.	No Oth No Pr Su Pr W	er adverse information DISPOSA daste treatre coduct/Pacubmit for contection.	effects n available L CONSIDERA ment methods kaging disposa lisposal to the l	TIONS	·	y of Environn	nental a	and Nature
12.6. SECTIO 13.1.	No Oth No Pr Su Pr W	er adverse information DISPOSA daste treatre coduct/Pacubmit for contection.	effects n available L CONSIDERA ment methods kaging disposa	TIONS I: egal person autho	·	y of Environn	nental a	and Nature
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12.6. SECTIO 13.1. 13.1.1.	No Oth No Oth Start Star	er adverse information DISPOSA faste treatre oduct/Pactubmit for contection. faste codes o information	effects n available L CONSIDERATE ment methods kaging disposatisposal to the l	I: egal person autho	·	y of Environn	nental a	and Nature
12.6. SECTIO 13.1. 13.1.1.	No Oth No Oth Start Star	er adverse information DISPOSA faste treatre oduct/Pactubmit for contection. faste codes o information	effects n available L CONSIDERATE ment methods kaging disposate disposal to the less/waste designation available ment – relevant	I: egal person autho	·	y of Environn	nental a	and Nature
12.6. SECTIO	No Oth No ON 13 W Pr St Pr W No	er adverse information DISPOSA aste treatr coduct/Pactubmit for contection. aste code: o informat aste treatr o informat	effects n available L CONSIDERATE ment methods kaging disposate disposal to the less/waste designation available ment – relevant	I: egal person autho ations according to	·	y of Environn	mental a	and Nature



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Trading name:		HEMATOXY	LIN HP, PAP 1	.A	
Product code:	HEMHP-OT-X**	Revision date:	04.06.2019.	Version:	5

13.1.5.	Other disposal recomme	ndations:				
	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 pro	visions:				
	-					
SECTION	14 TRANSPORT INFORM	1ATION				
-	Transporting/shipment by	road (ADR)				
UN numb	oer:	Not subject to transport regulations.				
UN prope	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing g	group:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
-	Transporting/shipment by	rail (RID)				
UN numb	per:	Not subject to transport regulations.				
UN prope	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing o	group:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
	Inland waterway transport	(ADN)				
UN numb	per:	Not subject to transport regulations.				
UN prope	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing o	group:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
-	Transporting/shipment by	sea (IMDG)				
UN numb	per:	Not subject to transport regulations.				
UN prope	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing o	group:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				

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Trading name:		HEMATOXY	MATOXYLIN HP, PAP 1A		
Product code:	HEMHP-OT-X**	Revision date:	04.06.2019.	Version:	5

UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-

SECTI	ON 15 REGULATORY INFO	RMATION	
15.1.	Safety, health and environ	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; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); 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-	
	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		

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Trading name:	HEMATOXYLIN HP, PAP 1A			LA		
Product code:	HEMHP-OT-X**	Revision date:	04.06.2019.	Version:	5	

SECTION	ON 16	Other information			
16.1.	Ind	ication of changes:	-		
			PBT	Stable, bioaccumulative and toxic	
				Strongly stable and strongly bioaccumulative.	
16.2.	Abl	oreviations and acronyms	LD ₅₀	Lethal dose, 50%	
			LC ₅₀	Lethal concentration, 50%	
			STOT-SE	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:		-		
16.4.	Classification and procedure u 1272/2008 (CLP)		used to deri	ve the classification for mixture according to Regulation (EC)	
Classif	icatio	n	Classification procedure		
-			-		
16.5.	Rel	evant H statements (numl	per and full t	text)	
	H:	302	Harmful if swallowed.		
		318	Causes seri	ious eye damage.	
		319	Causes serious eye irritation.		
16.6.	Tra	ining advice:	-		
			** "X" in th the produc	e product code marks different volumes (different packagings of et)	
16.7. Further information: W		instructions	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.		

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EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT

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Trading name:		BLUING REA	G REAGENT		
Product code:	BR-OT-X**	Date of compilation:	04 June 2019	Version: 4	

SECTI	ON 1 IDENTIFICATION	OF THE SU	STANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	BLUING R	EAGENT			
	Chemical name:	-				
	Catalogue number:	BR-OT-X*	*			
1.2.	Relevant identified uses of the substance or mixture and uses advised against			xture and uses advised against		
	Uses:		Reagent f	or conversion of red hematoxylin-stained nuclei to blue.		
	Uses advised against:		Only the i	dentified 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.	ioGnost Ltd.		
	Address:	Address:		Medjugorska 59, Zagreb		
	Telephone number: +		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent p	person:	msds@biognost.hr			
	National contact:		_			
1.4.	Emergency telephone	Emergency telephone number				
_	National Protection a	nd Rescue D	irectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2 HAZARDS INFORMATION						
2.1.	Classification of the substance or	mixture					
2.1.1.	Classification (REGULATION (EC) N	No. 1272/2008	(CLP)				
	Hazard class and category	code:	Hazard statements*:				
	Not identified as hazardous subst	ance.	-				
2.1.2.	Additional information						
	-						
*For ful	ll text of Hazard- and EU Hazard-sta	ntements: see S	ection 16				
2.2.	Classification according to EC Dire	ective Nr. 1272	(2008 CLP)				
	Product identification:	BLUING REAC	- GENT				
	Identification number:	-					
	Authorization no.: -						
	Hazard pictograms: -						
	Signal word:	-					



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Trading name:		BLUING REA	GENT	
Product code:	BR-OT-X**	Date of compilation:	04 June 2019	Version: 4

	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	-	

SECTION 3 CO	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS						
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
-	-	-	Contains no hazardous substances	-			

SECTI	SECTION 4 FIRST AID MEASURES					
4.1.	Description of first aid measures					
	General notes:	-				
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.				
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.				
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.				
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.				
	Self-protection of the first aid	er: Treat symptomatically.				
4.2.	Most important symptoms and effects, both acute and delayed					
	Following inhalation:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.				
	Following skin contact:	Slight irritation. After short exposure, resorption effects are not likely. Long term exposure may cause drying, cracking and tingling sensation of skin.				
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.				



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Trading name:		BLUING REAGENT		
Product code:	BR-OT-X**	Date of compilation:	04 June 2019	Version: 4

	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.
4.3.	Indication of any immediate medical attention and special treatment needed	
	-	

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. Cool closed containers exposed to fire with water spray or vapor.			
5.4.	Additional information			
	Remove sources of heat and ignition.			
	Do not contaminate the environment with extinguishing media.			

SECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Wear protective equipment (see Section 8).			
6.2.	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and material for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		



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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). 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:	-
6.4.	Reference to other section	ons
	-	

SECTIO	ON 7 HANDLING AN STORAGE				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.		
	Measures to prevent aerosol and dust generati	on:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		-		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any inco	onditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	ven	ep in tightly closed and upright set containers in a well tilated storage rooms, and away from sources of heat, light, and other incompatible substances.		
	Packaging materials:	Mai	nufacturer's original packaging.		
	Requirements for storage rooms and vessels:		ep away from food and drink. Keep the containers ntly closed.		
	Advices for storage equipment:	be ı dire	e storage must be made of hard material; floors must resistant to chemicals. There must be no drain that ectly leads into sewage system. Secure proper tilation.		
	Further information on storage conditions:	and che	not place the unused material in the storage room I do not use empty containers for storing other micals. Do not store with incompatible materials (see tion 9).		
7.3.	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			



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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION							
8.1. Control parameters							
Substance				Occupational values/short		Biological limit values	
				ppm	mg/m³		
				-	-	No information available	

Substance - name:							
EC No: -		CAS No:	-				
DNEL							
				Industrial			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chron effect lo		
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	Dermal						
Critical physical paran	neters: s	olubility, fla	mmabilit	ty, corrosivity:	-		
				Consumer			
Route of		Acute		Acute	Chron	nic Chronic	
exposure:	effe	ect local	effe	ect systemic	effect lo	ocal effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
PNEC							
Environmental protec	tion tar	get		PNEC			
Fresh water					No information available		
Freshwater sediments	5				mation availabl		
Marine water					No information available		
Marine sediments					No information available		
Food chain					No information available		
Microorganisms in sewage treatment					No information available		
Soil (agricultural)					No information available		
Air				No infor	mation availabl	le	
8.2. Exposure	contro	ls					



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8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exponduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to pr exposure:	event	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	oment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) c visor.			
8.2.2.2.	Skin protection				
			otective gloves must be according to the EU Directive 2016/425/EEC and andard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation available		
8.2.3.	Environmental exposure	controls			
	Substance/mixture related measures to prevent expo		See Section 6		
	Structural measures to prevent exposure:		Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pre exposure:	event	See Section 6		

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES					
9.1.	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	No information available		
	Color:	colourless	No information available		



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Odor:	no odor	No information available
Odor threshold:	No information available	No information available
рН:	>8.0	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapor pressure:	No information available	No information available
Vapor 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):	Soluble in water (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
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
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.		
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.		

SECTIO	SECTION 11 TOXICOLOGICAL INFORMATION			
11.1.	Information on toxicological effects			
	Acute toxicity:			



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Route of exposure:	Method	Species	LD ₅₀ ,	ive dose /LC ₅₀ or E _{mixture}	Exposure	time	Results
Oral exposure:	No information available	-	L	LD ₅₀		-	
Dermal exposure:	No information available	-	L	LD ₅₀			-
Inhalation exposure:	No information available	-	L	-C ₅₀	-		-
Specific ta	rget organ toxicity	– single expos	ure (STOT SE):				
· · ·	Sp	ecific effects		Target	organ		Note
Oral exposure:	No informat	ion available	No	informatic	n available	-	
Dermal exposure:	No informat	ion available	No	informatic	n available	-	
Inhalation exposure	e: No informat	ion available	No	informatio	n available	-	
Respirator	y irritation:	No	information a	 vailable			
į ,	,						
Irritation a	nd corrosion						
	Exposure ti	me Spe	ecies Eva	luation	Method		Note
Skin irritation:	-	rabbit	-				
Eye irritation:	-	rabbit	_			-	
Sensitizatio	n .						
Dermal exposure:	No information a	available					
Inhalation	No information a						
exposure:							
Symptoms	related to the phy	sical, chemical	and toxicolog	jical chara	cteristics		
Oral exposure:		ay cause discor				ins.	
Dermal exposure:		ns may display					
Inhalation exposure		ns may display		r prolonge	d or repeate	d exposi	ure.
Eye exposure:	May cause irri					•	
Reneated	dose toxicity (suba	cute subchron	ic chronic)				
Repeated		Exposure	ic, critoriic)				



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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	-

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)



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Trading name:		BLUING REAGENT				
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	Carcinogenicity:	Current	studies on test animals did not indicate carcinogenic effects.				
	Mutagenicity in-vitro:	Current	in vitro tests did not indicate mutagenic effects.				
	Genotoxicity:	No information available					
	Mutagenicity in-vivo:	Current in vivo tests did not indicate mutagenic effects.					
	Germ cell mutagenicity:	No information available					
	Reproductive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.					
	Summary of evaluation of the	CMR prop	erties: -				
11.2.	Practical experiences:						
	Remarks relevant for classifica	tion:	No information available				
	Other remarks:		No information available				
11.3.	General notes:						
	-						

SECTION 12 ECOLOGICAL INFORMATION:

12.1. Toxicity

,						
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	-	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-
Microorganisms	LC ₅₀	72 hours	-	-	-	-
Chronic 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	-



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

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Trading nam	e:				BLUING	REA	GENT			
Product code	9 :	BR-OT-X**		Date	e of compilati	on:	04 June	2019	Versio	n: 4
							:		:	
Other organisi	ms	-	-	-	-	-		-		-
		e and degrada	bility							
Abiot		gradation								
	D	egradation ha	ılf-lives		Method			Evaluation	า	Note
Marine water	No	information a	vailable	No info	rmation availab	ole	No inform	ation ava	ilable	-
Fresh water	No	information a	vailable	No info	rmation availab	ole	No inform	ation ava	ilable	-
Air	No	information a	vailable	No infor	rmation availab	ole	No inform	ation ava	ilable	-
Soil	No	information a	vailable	No info	rmation availab	ole	No inform	ation ava	ilable	-
Biode	grad	ation	-			1				
% Degradatio		Time (day			ethod		Evaluatio			lote
No informatio available		No infor available	mation	No inform available	nation		informatio ailable		No informa Ivailable	ation
avaliable	C	ivaliable		avaliable		ava	allable	d	ivaliable	
12.3. Bioac	cumu	ılative potenti	al							
		pefficient: n-o		ater (log Ko	ow):					
Value		ncentration	рН	°C	Method		Evalua	ntion		Note
	No availa	information ble	_	: _	No informatior available	ו	No inform	ation	-	
i									1	
Bioco	ncen	tration factor	(BCF)							
Value		Spec	ies	ľ	Method		Evaluatio	n	N	Note
No informatio available	n	No ir available	nformatio	n No info	ormation ble		informatio		No inform available	ation
								:		
Chror	nic ec	otoxicity								
Valu	ie	Do	se E	xposure time	Species	١	Method	Evalu	ıation	Note
Chronic toxicit	y on	fish LC ₅₀	No inf	ormation	No information	No info	ormation	No infor		-



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Trading name:		BLUING REA	GENT		
Product code:	BR-OT-X**	Date of compilation:	04 June 2019	Version:	4

								. !			
				available	availa	able	availab	le			
Chronic crustace		-	EC ₅₀	No information available	No infor availa	mation able	No information available		No information available		-
12.4.	Mo	bility in soi	l .								
			dicted distributi	on in environm	nental (compart	ments:				
		······································	n available								
	Sur	face tensio	n:								
		Value	°C	Concentra	tion		Metho	d			Note
	No No information informat		No information available	No information available		No information available			-		
	Ads	orption / c	lesorption			<u>.i.</u>					
Transpo		A/D o	coefficient	log Kow		Evaporation rate		N	Method		Note
Soil-wa	ter	No available	's constant information	No information available		No information available		No information available		tion -	
Water-a	air	No available	information	No information available		No information available		No information available		tion -	
Soil-air		No available	information	No information	on N	No information available		No information available		tion -	
				<u> </u>				1		<u> </u>	
12.5.	Res	ults of PBT	and vPvB asses	ssment							
	No	informatio	n available								
12.6.		er adverse									
	No	informatio	n available								
			L CONSIDERA	TIONS							
13.1.	W	aste treatr	ment methods								
13.1.1.	Pı	oduct/Pac	kaging disposa	l:	_	_					
				egal person au	thorize	ad by the	Ministr	v of Fn	vironn	nontal and	Naturo



UN number:

UN proper shipping name:

Transport hazard class(es):

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Produc	Product code: BR-OT-X**		Date of compilation:	Date of compilation: 04 June 2019 Version:			
13.1.2.	Waste (codes/waste designa	tions according to Law:				
10.1.2.		ormation available	tions according to Law.				
	140 mile	Thation available					
13.1.3.	Waste	treatment – relevant	information:				
	No info	ormation available					
13.1.4.	. Sewage disposal – relevant information:						
	Waste i	must not be disposed	d of into the sewage system.				
13.1.5.	Other o	disposal recommenda	ations:				
	authori the pac	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.					
L3.1.6.	Relevant Community provisions:						
	-						
SECTIO	N 14 TRA	NSPORT INFORMAT	ΓΙΟΝ				
		ting/shipment by roa					
UN num	······································		Not subject to transport regu	llations.			
UN prop	oer shippir	ng name:	-				
Transpo	rt hazard	class(es):	-	-			
Packing	group:		-				
Environr	mentally h	azardous:	-				
Special _I	precaution	ns for user:	-				
	Transpor	ting/shipment by rail	(RID)				
UN num	nber:		Not subject to transport regu	lations.			
UN prop	oer shippir	ng name:	-				
Transpo	rt hazard	class(es):	-				
Packing	group:		-				
Environr	mentally h	azardous:	-				
Special _I	precaution	ns for user:	-				
	Inland wa	aterway transport (AE	DN)				
i.							

Not subject to transport regulations.

-



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Trading name:	BLUING REAGENT				
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Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by	sea (IMDG)
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	air (ICAO-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	CTION 15 REGULATORY INFORMATION					
15.1.	Safety, health and envi	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations	EU regulations				
	Authorization and/or restrictions of use					
	Authorizations:	-				
	Restrictions:	-				



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		EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;
		The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);
	Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;
		EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;
		EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 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	

SECTIO	ON 16 Other information		
16.1.	Indication of changes:	-	
		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%
		STOT-SE	Specific target organ toxicity - single exposure
16.3.	Key literature references and source of data:	-	
16.4.	Classification and procedure u 1272/2008 (CLP)	ised to derive the	e classification for mixture according to Regulation (EC)
Classifi	cation	Classification pro	ocedure
-		_	
16.5.	Relevant H statements (numb	er and full text)	
	H: -	_	
16.6.	Training advice:	-	



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		** "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.

Δ	N	N	J	F	X	

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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Trade name:	OG-6 REAGENT, PAP 2A				
Product code:	OG6-OT-X**	Date of compilation:	05 June 2019	Version:	2

SECT	ION 1: Identification	n of the substa	ance/mixt	ure and o	f the company/undertaking	
1.1.	Product identifier					
	Trade name:	OG-6 REAGE	OG-6 REAGENT, PAP 2A			
	Chemical name:	-				
	Catalogue number:	OG6-OT-X**	ŧ			
1.2.	Relevant identified	uses of the sul	bstance or	mixture a	nd uses advised against	
	Uses:			Cytoplasr	nic staining reagent acc. to Papanicolaou.	
	Uses advised again	st:		Only the	dentified 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:		BioGr	BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number	•	+385 1 2409997			
	Telefax:		+385 1 2404039			
	E-mail of competent person:		msds	msds@biognost.hr		
	National contact: -		-			
1.4.	Emergency telephone numbers					
	National Protection and Rescue Directorate)irectorate:	•	112	
	Medical information:			+385 1 2348 342		
	Other information:				-	

SECTI	SECTION 2. Hazards identification				
2.1.	Classification of the substance	ce or mixture			
2.1.1.	Classification according to R	egulation (EC) No.	1272/2008 (CLP)		
	Hazard class and cate	gory code:		Hazard statement*:	
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For fu	ıll text of Hazard- and EU Haza	rd-statements: see	e Section 16.		
2.2.	Label elements	Label elements			
	Product identification:	OG-6 REAGEN	NT, PAP 2A		
	Identification number:	-			
	Authorisation number:	-			



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Trade name:		OG-6 REAGENT, PAP	2A		
Product code:	OG6-OT-X**	Date of compilation:	05 June 2019	Version:	2

	Hazard pictograms:	GHS02
	Signal word:	Danger
	Warning statement:	H225 Highly flammable liquid and vapor.
	Precautionary statement:	 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.
	Supplemental hazard information (EU):	-
2.3.	Other hazards	
	-	

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)			
64-17-5/ 200-578-6/ 603-002-00-5	-	≥ 60	ethanol	Flam. Liq. 2; H225			
107-21-1/ 203-473-3/ 603-027-00-1	-	< 10	ethylene glycol	Acute Tox. 4; H302			

SECT	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 all contaminated clothes/footwear. Thoroughly wash with water for at least 15 minutes.			
	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.			



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Trade name:		OG-6 REAGENT, PAR	P 2A		
Product code:	OG6-OT-X**	Date of compilation:	05 June 2019	Version:	2

	Following swallowing:	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 e	ffects, 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 swallowing:	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 medical attention and special treatment needed		
	No information available		

SECT	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO2 Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2.	Special hazards arising from th	e substance or mixture			
	Hazardous byproducts of fire:	Incomplete combustion of the product.			
5.3.	Advice for firefighters	Advice for firefighters			
	Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing).				
5.4.	Additional information				
	Cool endangered receptacles v	with water spray. Collect contaminated fire fighting water separately. Do ent with extinguishing media.			

SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		



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Trade name:		OG-6 REAGENT, PAR	P 2A		
Product code:	OG6-OT-X**	Date of compilation:	05 June 2019	Version:	2

	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.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Self-contained open-circuit com heat dissipation (fireproof clothi	pressed air breathing apparatus, a set for protecting the body from ng).		
6.2.	Environmental precautions:			
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.			
6.3.	Methods and materials for conta	ainment 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:	Sawdust, sand, mineral adsorbents		
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). Do not use incompatible materials (see Section 10).		
6.4.	Reference to other sections			
	See Section 7 for information on safe handling.			
	See Section 8 for information or	See Section 8 for information on personal protection equipment.		
	See Section 13 for disposal info	mation.		

SECTIO	SECTION 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust general	tion: 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. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities				
	conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.			



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Trade name:	OG-6 REAGENT, PAP 2A				
Product code:	OG6-OT-X**	Date of compilation:	05 June 2019	Version:	2

	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. Exposure	SECTION 8. Exposure controls/personal protection						
8.1. Control parar	neters						
Substance	CAS N	CAS No		Occupational exposure limit values/short term values		Biological limit values	
			ppm		mg/m³		
Ethanol	64-17-	5	100	0/-	1900/-	No information available	
Ethylene glycol	107-21	-1	20/	' 40	52/104	No information available	
Substance: -							
EC No:	_		CAS No):	-		
DNEL							
			Industri	al			
Route of exposure:	Acute Acu		te Chronic		Chronic	Chronic	
Route of exposure.	effect local	effect sys	stemic	eff	ect local	effect systemic	
Oral	-	-		-		-	
Inhalation	-	-		35 mg/ kg (ethylene glycol)		950 mg/m³ (ethanol)	
Dermal	-	-	-			343 mg/kg (ethanol) 106 mg/kg (ethylene glycol)	
Critical physical param	eters: solubility, f	lammability,	corrosiv	vity:	-		
Consumer							
Pouto of owners	Acute	Acut	te	C	Chronic	Chronic	
Route of exposure:	effect local	effect sys	stemic	eff	ect local	effect systemic	
Oral	-	-		-		-	



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Trade n	ame:			OG-6	OG-6 REAGENT, PAP 2A					
Product	code:	OG6-OT-X**		Date of o	compilation:	05 June 2019	Version:	2		
Inhalatio	n	-	-		7 mg/kg (ethylene glycol)	950 mg/m³ (ethanol)			
Dermal	ermal				-	343 mg/kg (e		ol)		
PNEC										
Environn	nental prot	ection target		PNEC						
Fresh wa	ter			0.96 mg/l (10 mg/l (ethanol) ethylene glycol)					
Freshwat	er sedimer	nts		3.6 mg/kg 37 mg/kg ((ethanol) (ethylene glycol)					
Marine w	vater			0.79 mg/l (1 mg/kg (ethanol) ethylene glycol)					
Marine s	ediments			3.7 mg/kg	(ethylene glycol)					
Food cha	ain			no information available						
Microorg	ganisms in	sewage treatment		no information available						
Soil (agri	cultural)			0.63 mg/kg (ethanol) 1.53 mg/kg (ethylene glycol)						
Air				no information available						
				'						
8.2.	Exposure	e controls								
8.2.1.	Appropri	iate engineering co	ntrols							
	measure	ce/mixture related s to prevent exposu lentified uses:	ıre	Do not eat, o	drink or smoke in th quipment.	ne workspace. Use	personal			
	Structura exposure	al measures to prev e:	ent	No informat	ion available					
	_	itional measures to exposure:		Organizatior during work	n of work in order to process.	o reduce other wo	rker's influe	nce		
	Technica exposure	I measures to preve	ent	See Section	7.2					
8.2.2.	Personal protection equipment									
8.2.2.1.	Eye and	face protection:	of c	concentration	at stick to face (EN in air; protective ga levels of concentra	s mask that cover				
8.2.2.2.	Skin prot	tection								



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Trade name:	OG-6 REAGENT, PAP 2A				
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	Hand protection:	Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.		
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) acording to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No information ava	iilable	
8.2.3.	Environmental exposure contr	ols		
	Substance/mixture related me exposure:	easures to prevent	See Section 6	
	Structural measures to prevent exposure:		Use modern equipment.	
	Organisational measures to pr	revent exposure:	Adapt the work process to the required working conditions of the workplace.	
	Technical measures to prevent	t exposure:	See Section 6	

9.1.	Information on basic physical and	d chemical properties		
		Value	Method	
	Physical state:	liquid	no information available	
	Colour:	orange	no information available	
	Odour:	ethanol like	no information available	
	Odour threshold;	no information available	no information available	
	рН:	3.0-5.5	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:	19 °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	



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Trade name:	OG-6 REAGENT, PAP 2A				
Product code:	OG6-OT-X**	Date of compilation:	05 June 2019	Version:	2

	Vapour density:	no information available	no information available
	Relative density	no information available	no information available
	Bulk density:	No information available	no information available
	Solubility(ies):	no information available	no information available
	Partition coefficient: n-octanol/water (log Kow):	no information available	no information available
	Auto-ignition temperature:	no information available	no information available
	Decomposition temperature:	no information available	no information available
	Viscosity:	no information available	no information available
	Explosive properties:	no information available	no information available
	Oxidising properties:	no information available	no information available
9.2.	Other information		
	-		

SECTIO	SECTION 10.: Stability and reactivity				
10.1.	Reactivity:	The product is stable under normal working and storage conditions.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.			
10.4.	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.			
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.			
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.			

SECTION 11. To	SECTION 11. Toxicological information						
11.1. Information on toxicological effects							
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	-	7.060 mg/kg (ethanol) 7.712 mg/kg (ethylene glycol)		
Dermal:	No information available	rabbit	LD ₅₀	-	>3.500mg/kg (ethylene glycol)		



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Trade name:					OG-6 REAGENT, PAP 2A					
Product code:	С)G6-OT-X**		D	Date of compilation: 05 June 2019 Version					sion: 2
Inhalation:	No availa	information able	rat		LC ₅₀		4 h (ethanol)		20.000 mg/l (ethanol)	
Specific targe	et orga	n toxicity - sir	ıgle exposı	ure (S	TOT-SE):					
	Specific effect						Target organ			Note
Oral:	Oral: No information available					No inf	ormation availa	able	-	
Dermal:	No information available					No inf	ormation availa	able	-	
Inhalation:	N	o information	available			No inf	ormation availa	able	-	
Aspiration h	nazard	:			No inform	ation avai	lable			
Irritation an	id corr	osion								
initation an	iu com	Exposure tir	ne	Spe	cies	Εν	valuation		Method	Note
Skin iii		No information available	No availa			No infor available	nation No information available		-	
Serious eye damage/irritatio	n	No information available	No availa	No information available		No infor available	, i		o formation ailable	-
Sensitization Skin sensitizatio	n.	No informat	اماندىد مى	Ja						
Respiratory sensitization:	n:	No informat								
		3								
Symptoms re	lated t	to the physical	, chemical	and t	toxicologica	al characte	eristics			
Oral exposure:		sensation; hig	her levels on the second the seco	of cor ration	ncentration n causes co	may caus	g sensation in t e nausea, abdo fficult breathin	omina	al pain and	vomiting.
Dermal exposure	Δ.	Slight irritatio may cause dry			•	•	fects are not li of skin.	kely.	Long-term	exposure
Inhalation exposure:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.									
Eye exposure:		Direct eye cor sensation.	itact may c	ause	slight to m	oderate ir	ritation, lacrim	ation	and burni	ng
Repeated dos	se toxi	city (subacute	, subchron	ic, ch	ronic)					
1			Exposure time	,	Species	Me	thod	Evalu	ation	Note



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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	-

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)



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Trade name:	OG-6 REAGENT, PAP 2A					
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Car	cinogenicity:	No information available				
Mu	tagenicity <i>in-vitro</i> :	No information available				
Ger	notoxicity:	No information available				
Mu	tagenicity <i>in-vivo</i> :	No information available				
Ger	m cell mutagenicity :	No information available				
Rep	productive toxicity:	No information available				
C	f l ii fil GMD ii					
Sun	nmary of evaluation of the CMR properties; :	No information available				
Sun	nmary of evaluation of the CMR properties; :	No information available				
11.2.	Practical experiences:	No information available				
		No information available No information available				
	Practical experiences:					
	Practical experiences: Classification observations:	No information available				

SECTION 12. E	cological in	nformation				
12.1. Toxicit	У					
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Fish	No information available	72.860 mg/l (ethylene glycol)	_
Crustacea:	EC ₅₀	48 hours	water flea	No information available	>100 mg/l (ethylene glycol)	-
Algae/aquatic plants:	IC ₅₀	72 hours	algae	No information available	6.500-13.000 mg/l (ethylene glycol)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	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	-



									Pa	age 12 of 1 [°]	7
Trade name	e:				00	6-6 REAG	ENT, PAI	P 2A	-		
Product co	de:	OG6-	OT-X**		Date	of compil	ation:	05 June 2	019	Version:	2
Algae/aquat plants	ic IO	C ₅₀	72 hours		ormation	No in	formation able	No informa	ation	-	
Other organisms	_		-	-		-		-		-	
12.2. Pers	sisten	ce and de	egradability								
Abi	otic d	egradatic	n								
	Degradation half-lives			Met	hod	Eva	aluation		Note		
Marine water	No	informati	on available		o inform vailable	nation	No infor available		-		
Fresh water	No	o information available			o inform vailable	nation	No infor available		-		
Air	No	informati	nformation available			nation	No infor		-		
Soil	No	No information available			o inform vailable	nation	No information available				

Biodegrad	dation	1		1			1		1		
% Degradat	tion	Tin	ne (days)		Me	ethod		Evaluation		Note	
-	-			-			-		-		
12.3.	Rioac	cumulativ	ve potential								
			partition coeff	ficient	(log Kov	<i>γ</i>)					
Value		centratio	•	leieire	°C	Meth	ıod	Evaluation		Note	
_	-		-	-		_		-	-		
	ncenti	ration Fac	tor (BCF)	ži						1	
Value	<u>'</u>				l	Method		Evaluation		Note	
No information available	information No information available			e N	No intormation available			No information available		-	
Chronic e	cotox	icitv									



13.1.1.

Product/Packaging disposal:

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Product code:	OG6-OT-X**	Date of compilation:	05 June 2019	Version:	2	

Product code: OG6-OT-X**		D	Date of compilation:			05 Ju	une 2019	Version:			
Vā	alue	Dose	Exp	osure time	S	pecies	Metho	od	Evaluation	Note	
Chronic on fish	toxicity	LC ₅₀		information able		No No nformation information vailable available			o Iformation vailable	-	
On crustacea F(information able		rmation lable	No information available		o Iformation vailable	-		
12.4.	Mobility	in soil									
	Known o	r predicted	distribution	on in environ	ment	al compart	ments:				
	No infor	mation ava	ilable								
	Surface t	ension:									
	Va	lue		°C	Coı	ncentration	ı	Method		Note	
	No in	formation	No i available	information	No i avail	nformatior		nformatio	on -		
	available		available		avan		avaiid				
Adso	orption / d	esorption									
Transpo	ort	A/D coeffice Henry's cor		log Kow		Evaporation rate		N	1ethod	Note	
Soil-Wa	nter No avai	inf lable	ormation	No informa	No information available		No inf availal	formation ble	-		
Water-A	Air No avai	inf lable	ormation	No informa available	ation	No information available		No inf availal	formation ble	-	
Soil-Air	No avai	inf lable	ormation	No informa available	ation	No inforr available	nation	No inf availal	formation ble	-	
12.5.	Results c	of PBT and v	vPvB asses	sment							
		mation ava									
	:										
12.6.	Other ad	verse effec	ts								
	No infor	mation ava	ilable								
SECTIO	N 13. Dis	posal cons	ideration	s							



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Trade name:	OG-6 REAGENT, PAP 2A					
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	Submit for disposal to the Protection.	legal person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste design	nations according to Low:			
	Packaging that contains re	esidual hazardous substances or is contaminated with hazardous substances			
13.1.3.	Waste treatment – relevant information:				
	No information available				
	:				
13.1.4.	Sewage disposal – relevan				
	Waste must not be dispos	sed of into the sewage system.			
13.1.5.	Other disposal recommendations:				
	•	duct's remains into the sewage system. Submit the remains to the collectors			
	authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.				
13.1.6.	Relevant Community provisions:				
	Disposal must be made ac	ccording to official regulations.			
SECTIO	N 14. Transport informatio	n			
Trar	sporting/shipment by road	(ADR)			
UN num	ber	1170			
UN prop	er shipping name:	Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing	group:	II			
Environr	nental hazards:	No information available			
Special p	precautions for user:	-			
Trar	nsporting/shipment by rail (F	RID)			
UN num	ber:	1170			
UN prop	er shipping name:	Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing	group:	II			
Environr	nental hazards:	No information available			
Special p	precautions for user:	-			
Trar	nsporting/shipment by inland	d waterways (ADN)			
UN num	ber:	1170			
UN prop	er shipping name:	Ethanol solution			



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Trade name:		2A	<u> </u>		
Product code:	OG6-OT-X**	Date of compilation:	05 June 2019	Version:	2

Transport hazard class(es):	3			
Packing group:	П			
Environmental hazards:	No information available			
Special precautions for user:	-			
Transporting/shipment by sea (IMDG	5)			
UN number:	1170			
UN proper shipping name:	Ethanol solution			
Transport hazard class(es):	3			
Packing group:	П			
Environmental hazards:	No information available			
Special precautions for user:	-			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-			
Transporting/shipment by air (ICAO-	TI/IATA-DGR)			
UN number:	1170			
UN proper shipping name:	Ethanol solution			
Transport hazard class(es):	3			
Packing group:	П			
Environmental hazards:	No information available			
Special precautions for user:	-			
Further - information:				

SECTIO	ION 15. Regulatory information				
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorisation and/or restrictions on use				
	Authorisations: -				
	Restrictions: -				



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	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances; EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on 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 guideline)	1999/13/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			

SECTIO	SECTION 16. Other information					
16.1.	Indication of changes:		-			
				PBT	Stable, bioaccumulative and toxic	
				vPvB	Strongly stable and strongly	
				bioaccumul	ative.	
16.2.	Abbi	reviations and acronyr	ns:	LD50	Lethal dose, 50%	
				LC50	Lethal concentration, 50%	
				STOT-SE	Specific target organ toxicity – single	
				exposure		
16.3.	Key	literature references a	nd source of			
16.5.	data	:		-		
16.4.	Class	sification and procedu	re used to deriv	e the classific	ation for mixture according to Regulation (EC)	
10.4.	1272	2/2008 (CLP)				
Classific	cation		Classification p	procedure		
_			-			
16.5.	Relevant H statements (number and full te			ext)		
		H225	Highly flamm	able liquid an	d vapor.	
	H: H302		Harmful if sw	allowed.		



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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
-



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Trade name:		P 3B			
Product code:	EA50-OT-X**	Date of compilation:	05 June 2019	Version:	2

SECT	ION 1: Identification	of the substan	ce/mixt	ture and o	f the company/undertaking			
1.1.	Product identifier							
	Trade name:	ea 50 reagen	IT, PAP 3	3B				
	Chemical name:	-	-					
	Catalogue number:	EA50-OT-X**	EA50-OT-X**					
1.2.	Relevant identified	uses of the subs	tance or	mixture ar	nd uses advised against			
	Uses:			Cytoplasr	nic staining reagent acc. to Papanicolaou.			
	Uses advised agains	st:		Only the	identified uses are advised.			
	Reason why uses ac	dvised against: The product is intended for use only as an <i>in vitro</i> diagmedical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to it for other purposes.			levice, registered at the Agency for Medicinal and Medical Devices and there is no reason to use			
1.3.	Details of the suppl	ier of the safety	data she	eet				
	Supplier:		BioG	BioGnost Ltd.				
	Address:		Medj	edjugorska 59, Zagreb				
	Telephone number:		+385	5 1 2409997 5 1 2404039 <u>s@biognost.hr</u>				
	Telefax:		+385					
	E-mail of competen	t person:	<u>msds</u>					
	National contact:		-					
1.4.	Emergency telepho	ne numbers						
	National Protection	and Rescue Dire	and Rescue Directorate: :		112			
	Medical information	า:			+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.	1272/2008 (CLP)			
	Hazard class and catego	ry code:		Hazard statement*:		
	Flam. Liq. 2		H225			
2.1.2.	Additional information					
	-					
*For fu	ıll text of Hazard- and EU Hazard-	statements: see	e Section 16.			
2.2.	Label elements					
	Product identification: EA 50 REAGENT, PAP 3B					
	Identification number: -					
	Authorisation number:	-				



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Trade name:	EA 50 REAGENT, PAP 3B					
Product code:	EA50-OT-X**	Date of compilation:	05 June 2019	Version:	2	

	Hazard pictograms:	GHS02
	Signal word:	Danger
	Warning statement:	H225 Highly flammable liquid and vapor.
	Precautionary statement:	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.
	Supplemental hazard information (EU):	-
2.3.	Other hazards	
	-	

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)				
64-17-5/ 200-578-6/ 603-002-00-5	-	≥ 60	ethanol	Flam. Liq. 2; H225				
107-21-1/ 203-473-3/ 603-027-00-1	-	< 20	ethylene glycol	Acute Tox. 4; H302				

SECT	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 all contaminated clothes/footwear. Thoroughly wash with water for at least 15 minutes.			
	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.			



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Trade name:	EA 50 REAGENT, PAP 3B				
Product code:	EA50-OT-X**	Date of compilation:	05 June 2019	Version:	2

	Following swallowing:	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 e	ffects, 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 swallowing:	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 medical attention and special treatment needed			
	No information available			

SECT	CTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO2 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 byproducts of fire: Incomplete combustion of the product.				
5.3.	Advice for firefighters				
	Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing).				
5.4.	Additional information				
	Cool endangered receptacles v	with water spray. Collect contaminated fire fighting water separately. Do ent with extinguishing media.			

SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		



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Product code:	EA50-OT-X**	Date of compilation:	05 June 2019	Version:	2

	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.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Self-contained open-circuit com heat dissipation (fireproof clothi	pressed air breathing apparatus, a set for protecting the body from ng).		
6.2.	Environmental precautions:			
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.			
6.3.	Methods and materials for containment 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:	Sawdust, sand, mineral adsorbents		
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). Do not use incompatible materials (see Section 10).		
6.4.	Reference to other sections			
	See Section 7 for information or	n safe handling.		
	See Section 8 for information or	n personal protection equipment.		
	See Section 13 for disposal info	mation.		

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. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust gener	ation:	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	. Thoro	ughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions: Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.					



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Trade name:	EA 50 REAGENT, PAP 3B				
Product code:	EA50-OT-X**	Date of compilation:	05 June 2019	Version:	2

	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:	o not place the unused material in the storage room and not use empty containers for storing other chemicals. Do ot store with incompatible materials (see Section 10).					
7.3.	Specific end use(s)						
	Recommendations:	-					
	Industrial sector specific solutions:	-					

SECTION 8. Exposure	controls/persor	nal protection	on							
8.1. Control parameters										
Substance	CAS No		Occupational exposure limit values/short term values			Biological limit values				
			ppm		mg/m³]				
Ethanol	64-17-	1000/-		1900/-	No information available					
Ethylene glycol	107-21-1		20/40		52/104	No information available				
Substance:	_									
EC No:	-	-) :	-					
DNEL										
			Industri	ial						
Route of exposure:	Acute Acu		te Chronic		Chronic	Chronic				
Route of exposure.	effect local	effect sys	stemic	effect local		effect systemic				
Oral	-	_				-				
Inhalation	-	-		35 mg/ kg (ethylene glycol)		950 mg/m³ (ethanol)				
Dermal	mal		-			343 mg/kg (ethanol) 106 mg/kg (ethylene glycol)				
Critical physical param	eters: solubility, fl	lammability,	corrosiv	vity:	-					
			Consum	er	,					
Pouts of owners	Acute	Acut	te	Chronic		Chronic				
Route of exposure: effect local effect systemic		effect local		effect systemic						
Oral	-	-		-		-				



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Trade n	ame:	EA 50 REAGENT, PAP 3B									
Product	Product code: EA50-OT-X**			Date of compilation: 05 June 2019 Version: 2							
Inhalatio	Inhalation			7 mg/kg (ethylene glycol)		950 mg/m³ (ethanol)					
Dermal		-	-		-		343 mg/kg (ethanol) 53 mg/kg (ethylene glycol)				
PNEC											
Environn	nental prote	ction target		PNEC	PNEC						
Fresh water				0.96 mg/l (ethanol) 10 mg/l (ethylene glycol)							
Freshwater sediments				3.6 mg/kg (ethanol) 37 mg/kg (ethylene glycol)							
Marine water				0.79 mg/l (ethanol) 1 mg/kg (ethylene glycol)							
Marine sediments				3.7 mg/kg (ethylene glycol)							
Food cha	ain			no information available							
Microorg	ganisms in se	ewage treatment		no information available							
Soil (agricultural)			0.63 mg/kg (ethanol) 1.53 mg/kg (ethylene glycol)								
Air				no informa	tion available						
8.2.	Exposure of	controls									
8.2.1.	Appropriate engineering controls										
	Substance/mixture related measures to prevent exposure during identified uses:			Do not eat, drink or smoke in the workspace. Use personal protective equipment.							
	Structural measures to prevent exposure:			No information available							
	Organisational measures to prevent exposure:			Organization of work in order to reduce other worker's influence during work process.							
	Technical measures to prevent exposure:			See Section 7.2							
8.2.2.	Personal p	l protection equipment									
8.2.2.1.	Eye and fa	ce protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.								
8.2.2.2.	Skin prote	ection									



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Trade name:		EA 50 REAGENT, PA	P 3B		
Product code:	EA50-OT-X**	Date of compilation:	05 June 2019	Version:	2

	Hand protection:	and standard EN 37 Glove mate Glove thick	nust be according to the EU Directive 2016/425/EEC 74. erial: nitrile rubber ness: ≥0.50 mm ugh time: >480 min	
	Other skin protection:	footwear, such as re entire foot. In case impermeable mate	ork use cotton clothing (EN 340) and suitable ubber boots (EN 20345) or shoes that cover the of spilling hazard, use clothing made of rial suitable for protection from liquid chemicals and footwear made from the same material.	
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) acording to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No information ava	ilable	
8.2.3.	Environmental exposure conti	rols		
	Substance/mixture related me exposure:	easures to prevent	See Section 6	
	Structural measures to prever	nt exposure:	Use modern equipment.	
	Organisational measures to p	revent exposure:	Adapt the work process to the required working conditions of the workplace.	
	Technical measures to preven	t exposure:	See Section 6	

9.1.	Information on basic physical and	d chemical properties	
		Value	Method
	Physical state:	liquid	no information available
	Colour:	violet green	no information available
	Odour:	ethanol like	no information available
	Odour threshold;	no information available	no information available
	pH:	5.2-5.8	no information available
	Melting point / freezing point;	no information available	no information available
	Initial boiling point and boiling range:	no information available	no information available
	Flash point:	21°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



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Trade name:		EA 50 REAGENT, PA	P 3B		
Product code:	EA50-OT-X**	Date of compilation:	05 June 2019	Version:	2

	Vapour density:	no information available	no information available
	Relative density	no information available	no information available
	Bulk density:	No information available	no information available
	Solubility(ies):	no information available	no information available
	Partition coefficient: n-octanol/water (log Kow):	no information available	no information available
	Auto-ignition temperature:	no information available	no information available
	Decomposition temperature:	no information available	no information available
	Viscosity:	no information available	no information available
	Explosive properties:	no information available	no information available
	Oxidising properties:	no information available	no information available
9.2.	Other information		
	-		

SECTIO	N 10.: Stability and reactivity	
10.1.	Reactivity:	The product is stable under normal working and storage conditions.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.
10.3.	Possibility of hazardous reactions:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.
10.4.	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.

SECTION	l 11. Toxicological inforn	nation			
11.1.	Information on toxicologic	al effects			
	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	-	7.060 mg/kg (ethanol) 7.712 mg/kg (ethylene glycol)
Dermal:	No information available	rabbit	LD ₅₀	-	>3.500mg/kg (ethylene glycol)
Inhalatio	n: No information available	rat	LC ₅₀	4 h (ethanol)	20.000 mg/l (ethanol)



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Specific target of		e exposure (STOT-SE):	- .			
0.1	•	cific effects	Target orga		No	te
Oral:	No information av		No information av		-	
Dermal:	No information av		No information av		-	
Inhalation:	No information av	allable	No information av	allable	-	
Aspiration haza	rd:	No inform	nation available			
Irritation and co	orrosion					:
	Exposure time	Species	Evaluation		Method	Note
Skin corrosion/irritation	No information available	No information available	No information available		ormation iilable	-
Serious eye damage/irritation	No information available	No information available	No information available		ormation iilable	-
Sensitization Skin sensitization: Respiratory sensitization:	No information					
	d to the physical, ch	nemical and toxicologi	al characteristics			
Oral exposure:	Swallowing may sensation; higher In case of vomiting	cause irritation of muc levels of concentratio	osa, tingling sensation n may cause nausea, ab oughing, difficult breat	dominal	pain and vo	omiting.
Dermal exposure:		ofter short exposure, re g, cracking and tingling	sorption effects are no sensation of skin.	t likely. L	ong-term e	xposure
Inhalation exposure:	_	e amounts of vapors in ng, headache and nau	i inadequately ventilate ea.	ed perim	eter may ca	use
Eye exposure:	Direct eye contact sensation.	t may cause slight to r	noderate irritation, lacr	imation a	and burning	!
Repeated dose to	oxicity (subacute, su	bchronic, chronic)				
		oosure Specie			tion N	ote



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Trade name:		EA 50 REAGENT, PA	P 3B		
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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	-

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)



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				.ge == e: =:				
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	_	
11.3.	General notes:	
	Other observations:	No information available
	Classification observations:	No information available
11.2.	Practical experiences:	
Sum	nmary of evaluation of the CMR properties; :	No information available
кер	roductive toxicity.	INO IIIIOIIIIatioii available
	roductive toxicity:	No information available
Geri	m cell mutagenicity :	No information available
Mut	agenicity <i>in-vivo</i> :	No information available
Gen	otoxicity:	No information available
Mut	agenicity in-vitro:	No information available
Card	cinogenicity:	No information available

SECTION 12. E	SECTION 12. Ecological information											
12.1. Toxicit	12.1. Toxicity											
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note						
Fish	LC ₅₀	96 hours	Fish	No information available	72.860 mg/l (ethylene glycol)	-						
Crustacea:	EC ₅₀	48 hours	water flea	No information available	>100 mg/l (ethylene glycol)	-						
Algae/aquatic plants:	IC ₅₀	72 hours	algae	No information available	6.500-13.000 mg/l (ethylene glycol)	-						
Other organisms	-	-	-	-	-	-						
Chronic (long-term) toxicity	Doza	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	-						



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										ļ.	Page 12 c	of 17
Trade name	e:					EA 5	0 REAG	ENT, PA	AP 3B			
Product co	de:	EA50-	OT-X**	•		Date of	compila	ation:	05	June 2019	Versio	n: 2
Algae/aquatic plants		C ₅₀	72 hou	urs	inforn	No information available		No information available		No information available		
Other organisms	- - - - - - - - - -		_		-		_		-	•		
12.2. Per	sisten	ce and de	egradab	ility								
		legradatio										
		Degradat	ion half	-lives		Metho	d	Ev	/aluatio	n	Note	!
Marine water	No	informati	on avail	able	No i	nformat able	ion	No info availabl		-		
Fresh water	No	informati	on avail	able	No i avail	nformat able	ion	No info availabl		_		
Air	No	informati	on avail	able	No i avail	nformat able	ion		No information available		-	
Soil	No	informati	on avail	able				No info availabl		-		

Biodegrad		1		1				1				
% Degradat	tion	Tin	ne (days)		Meth	od		Evalua	tion	Note	<u> </u>
-	-			-	•			-		-		
12.3.	Pione	cumulativ	ıa natar	v+ial								
		nol-water			iont (lo	a Kow)						
Value		centratio	•	pH	°C	-	Meth	od	Fval	uation	Not	·е
-	-		-	Pri	-		1416 611			- dation		
:			!		i	i			i	<u> </u>		
Biocor	ncent	ration Fac	tor (BCF)								
Value			Species			Мє	ethod		Eva	luation	N	ote
No information No information available		nation a	vailable	No ir	nformati	ion avail	ahla i	No info		-		
Chronic e	cotox	cicity										



13.1.1.

Product/Packaging disposal:

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Product code:	EA50-OT-X**	Date of compilation:	05 June 2019	Version:	2

Product code:		EA50-OT-X**		Date of compilation:			0	05 June 2019		Version:		
Vä	alue	Dose	Exp	osure time	Sp	pecies	Met	thod	Evalu	ıation	No	te
Chronic on fish	Chronic toxicity Dr. fish		1	No information available		No No information available available			No informa availab		-	
Chronic toxicity on crustacea (Daphnia)		EC ₅₀	No avail	information able	No infor availa	rmation able	No inform availal		No informa availab		-	
12.4.	Mobility	ty in soil										
	Known	or predicted	distribution	on in environ	menta	al compar	tments:					
	No info	ormation ava	ilable									
		e tension:					<u> </u>			1		
		Value		°C		centratio		Meth			Note	
	No i availabl	information le	formation No information available		No information No infor available available			i -				
							<u> </u>			<u> </u>		
Adsc		desorption A/D coeffic Henry's cor		log Kow	v	Evapora	ntion rat	е	Metho	d	Not	e
	ort No	A/D coeffice Henry's cor		log Kow No informa available	ation	Evapora No infori available	mation	No	Metho informa ailable		Not	e
Transpo	ort ater No	A/D coeffion Henry's cor Dominf Pailable	stant	No informa	ation	No infor	mation mation	No ava	informa	tion	Not	e
Transpo Soil-Wa	ort ater No ava Air No ava	A/D coeffice Henry's core o information information o information o information orange	ormation	No informa available	ation ation ation	No informavailable	mation mation mation	No ava No ava	informa ailable informa	tion	-	e
Transpo Soil-Wa Water-A	ort ater No ava	A/D coeffice Henry's core of information information railable of information railable of information	ormation ormation ormation	No informa available No informa available No informa available	ation ation ation	No informavailable No informavailable No informavailable	mation mation mation	No ava No ava	informa ailable informa ailable informa	tion	-	e
Transpo Soil-Wa Water-A	ort ater ava Air No ava Results	A/D coeffice Henry's cores o information railable o information railable o information	ormation ormation ormation ormation	No informa available No informa available No informa available	ation ation ation	No informavailable No informavailable No informavailable	mation mation mation	No ava No ava	informa ailable informa ailable informa	tion	-	e
Transpo Soil-Wa Water-A	Air No ava	A/D coeffice Henry's core of information information information railable of information information information railable of OF PBT and N	ormation ormation ormation vPvB asses	No informa available No informa available No informa available	ation ation ation	No informavailable No informavailable No informavailable	mation mation mation	No ava No ava	informa ailable informa ailable informa	tion	-	e
Soil-Water-A	Air No ava	A/D coeffice Henry's core of information available of pailable of information available	ormation ormation ormation ormation vPvB asses ilable	No informa available No informa available No informa available	ation ation ation	No informavailable No informavailable No informavailable	mation mation mation	No ava No ava	informa ailable informa ailable informa	tion	-	e
Transpo Soil-Wa Water-A Soil-Air	Air No ava	A/D coeffice Henry's corporation ailable comparished ailable comparished comp	ormation ormation ormation ormation vPvB asses ilable	No informa available No informa available No informa available	ation ation ation	No informavailable No informavailable No informavailable	mation mation mation	No ava No ava	informa ailable informa ailable informa	tion	-	e
Transpo Soil-Wa Water-A Soil-Air 12.5.	Air No ava	A/D coeffice Henry's corporation ailable comparished ailable comparished comp	ormation ormation ormation ormation /PvB asses ilable ts ilable	No informa available No informa available No informa available	ation ation ation	No informavailable No informavailable No informavailable	mation mation mation	No ava No ava	informa ailable informa ailable informa	tion	-	e



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	Submit for disposal to th Protection.	e legal person authorized by the Ministry of Environmental and Nature
13.1.2.	_	gnations according to Low:
	Packaging that contains	residual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – releva	
	No information available	
1214		
13.1.4.	Sewage disposal – releva	
	waste must not be dispo	osed of into the sewage system.
13.1.5.	Other disposal recomme	ndations
13.1.5.	Other disposal recomme	
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.
13.1.6.	Relevant Community pro	· · · · · · · · · · · · · · · · · · ·
		according to official regulations.
	<u> </u>	3
SECTIO	N 14. Transport information	on
Trar	nsporting/shipment by roac	d (ADR)
UN num	ber	1170
UN prop	per shipping name:	Ethanol solution
Transpo	rt hazard class(es):	3
Packing	group:	II
Environr	mental hazards:	No information available
Special p	orecautions for user:	-
Trar	nsporting/shipment by rail ((RID)
UN num	ber:	1170
UN prop	er shipping name:	Ethanol solution
Transpo	rt hazard class(es):	3
Packing	group:	II
Environr	mental hazards:	No information available
Special p	orecautions for user:	-
Trar	nsporting/shipment by inlar	nd waterways (ADN)
UN num	ber:	1170
UN pror	er shipping name:	Ethanol solution



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Product code:	EA50-OT-X**	Date of compilation:	05 June 2019	Version:	2

Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by sea (IMDG	i)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-
Transporting/shipment by air (ICAO-	TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Further - information:	

SECTIO	ON 15. Regulatory information						
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations						
	Authorisation and/or restrictions on use						
	Authorisations: -						
	Restrictions: -						



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Trade name:	EA 50 REAGENT, PAP 3B						
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	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances; EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on 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 guideline)	1999/13/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			

SECTIO	SECTION 16. Other information					
16.1.	Indication of changes:			-		
F				PBT	Stable, bioaccumulative and toxic	
				vPvB	Strongly stable and strongly	
				bioaccumula	ative.	
16.2.	Abbr	eviations and acronyr	ns:	LD50	Lethal dose, 50%	
				LC50	Lethal concentration, 50%	
				STOT-SE	Specific target organ toxicity – single	
				exposure		
16.2	Key l	iterature references a	nd source of			
16.3.	data:			-		
16.4.	Class	sification and procedu	re used to derive	e the classifica	ation for mixture according to Regulation (EC)	
10.4.	1272	/2008 (CLP)				
Classifi	cation		Classification p	rocedure		
-	-		_			
16.5.	Relevant H statements (number and full te			ext)		
		H225	Highly flamm	able liquid an	d vapor.	
	H:	H302	Harmful if sw	allowed.		



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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	
-	



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Trading name:		HISTANC	DL 100	
Product code:	H100-X**	Revision date:	13 May 2019	Version:

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	HISTANOL	100		
	Chemical name:	Ethyl alcoho	ol		
	Catalogue number:	H100-X**			
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	in histocytology and cytology sample processing.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advi	ised against: medi		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 +385 1 2404039		
	Telefax.:				
	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 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	I text of Hazard- and EU Hazard-	statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	HISTANOL 100			
	Identification number:	-			
	Authorization number:	-			



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Trading name:		HISTAN	IOL 100		
Product code:	H100-X**	Revision date:	13 May 2019	Version:	

	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. 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)			
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- xxxx	≤ 100%	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:	HISTANOL 100			
Product code:	H100-X**	Revision date:	13 May 2019	Version:

	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 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				
		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	ECTION 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:	HISTANOL 100			
Product code:	H100-X**	Revision date:	13 May 2019	Version:

		Made the area vains area ariana				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).					
6.2	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3	Methods and material for containment 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	ı :	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. Thoroughly wash 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:	HISTANOL 100			
Product code:	H100-X**	Revision date:	13 May 2019	Version:

	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 Contro	l parame	eters					
Size parameters			Occup	ational	exposure limit		
Substance					values/short term values		Biological limit values
			pp	ppm mg/m³		G	
Ethanol			64-17-5	100	00/-	1900/-	-
				<u>'</u>		1	
Substance name	e: -						
EC No:	_	CAS	No:	_			
DNEL	:			1			
				Indu	strial		
Route of		Acute		Acute		Chronic	Chronic
exposure:	6	effect local	effe	ct systemic	effect local		effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		950 mg/m³ (ethanol)
Dermal	-		-		-		343 mg/kg (ethanol)
Critical physical	parame	ters: solubil	ty, flamm	ability, corro	sivity:	-	
				Cons	umer		
Route of		Acute		Acute		Chronic	Chronic
exposure:		effect local	effe	ct systemic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		114 mg/m³ (ethanol)
Dermal	-		-		-		206 mg/kg (ethanol)
PNEC							



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Trading name:	HISTANOL 100			
Product code:	H100-X**	Revision date:	13 May 2019	Version:

Environmental protection target	PNEC		
Fresh water	0.96 mg/l (ethanol)		
Freshwater sediments	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	Use the product in well ventilated rooms. Use personal			
_	Substance/mixture related measure prevent exposure during identified	orotective equipment. Do not eat, drink or smoke in			
	Structural measures to prevent exposure:	In accordance with Section 7.			
	Organisational measures to preven exposure:	t	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent expe	osure:	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:	levels	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				
		•	otective gloves have to satisfy the specification of action (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:	Time until perforation: > 480 min During everyday work use cotton clothing (EN 340) and footwear, such as rubber boots (EN 20345) or shoes that entire foot. In case of spilling hazard, use clothing made impermeable material suitable for protection from liquit (Viton, PVC, himex) and footwear made from the same			



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Trading name:	HISTANOL 100					
Product code:	H100-X**	Revision date:	13 May 2019	Version:		

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			

SECT	CTION 9. Physical and chemical properties						
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;	-114.5°C	No information available				
	Initial boiling point and boiling range:	78 °C	No information available				
	Flash point:	13 °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:	lower: 3.5 Vol % upper: 15 Vol %	No information available				
	Vapour pressure:	59 hPa	No information available				
	Vapour density:	No information available	No information available				
	Relative density:	0.711 - 0.87778 (20°C)	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:	Product is not selfigniting	No information available				



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Trading name:	HISTANOL 100					
Product code:	H100-X**	Revision date:	13 May 2019	Version:		

	Decomposition temperature:	No information available	No information available
	Viscosity:	1.2 mPas (dynamic at 20°C)	No information available
	Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	No information available
	Oxidising properties:	No information available	No information available
9.2	Other information		
	Ignition temperature: 425 °C		

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.				

11.1 Information on toxicological effects								
Acute	toxicity:							
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results			
Oral:	-	rat (ethanol)	LD ₅₀	-	7.060 mg/kg			
Dermal:	-	-	-	-	-			
Inhalation:	-	rat (ethanol)	LC ₅₀	4 h	20.000 mg/l			
Specii	ic target organ tox	, , ,		rgan	Note			
<u> </u>	Sp	ecific effects	Target o	rgan	Note			
	No informati	on available	No information a	No information available -				
Oral:		Dermal: No information available						
	No informati	on available	No information a					
	No informati		No information a					
Dermal:								
Dermal: Inhalation:		on available						



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Trading name:	HISTANOL 100				
Product code:	H100-X**	Revision date:	13 May 2019	Version:	

Product code:	H100-X**	Re	evision date:	13 May 2019		Version:	
	 Exposu	re time	Species	Evaluation	Method	Note	
Skin corrosion/irritation	on:	-	·	-			
Serious eye damage/irritation	- 1	-		-			
	:	:	:	:	:		
Sensitiza		<i>c</i>					
Skin sensitization		formation avail					
Respiratory sensi	tization: No in	formation avail	able.				
Sympto	ms related to the p	hysical, chemic	al and toxicolog	nical characteris	tics		
Oral exposure:	-	ion available.		g.ca. ca. a c.c			
Dermal exposure		ion available.					
Inhalation exposi		ion available.					
Eye exposure:		ion available.					
Repeate	ed dose toxicity (sul	pacute, subchro	onic, 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	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	-	
dermal 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	-	
	•		·÷·····				

No

information

available

No information

available

Chronic oral

No

information

available

No

information

available

No

information

available



								Pag	e 10 of 16	
Trading name:	ding name: HISTANOL 100									
Product code:	H1	L00-X** Rev		Revis	ion date:	13 May 20	13 May 2019		Version:	
Chronic dermal	No information available No information information available available		No information information		formation	No No information information available available		on	-	
Chronic inhalation		No information available No information available			o formation vailable	No information available	No informati available	on	-	
Specific	target	organ toxicit	v – repeated	d expo	sure (STOT	RE):				
<u> </u>		3	Specific ef			Target o	rgan		Note	
Subacute oral		No informa	tion availab			No information		-		
Subacute dermal		No informa	tion availab	le		No information	n available	-		
Subacute inhalat	ion	No informa	tion availab	le		No information	n available	-		
Subchronic oral		No informa	tion availab	le		No information	n available	-		
Subchronic dermal No information availa			tion availab	le		No information available		-		
Subchronic inhalation No information available			le		No information available		-			
Chronic oral	nronic oral No information available			le		No information available -				
Chronic dermal		No informa	tion availab	le		No information	n available	-		
Chronic inhalatio	n	No informa	tion availab	le		No information	n available	-		
		arcinogenicity	y; mutageni		•					
Carcino						able data, the cla				
Mutage		n vitro:			Based on available data, the classification criteria are not met.					
Genoto					Based on available data, the classification criteria are not me					
Mutage					Based on available data, the classification criteria are not met.					
		agenicity:			Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.					
Reprodu	ictive t	oxicity:		Ba	sed on availa	able data, the cla	ssification c	riteri	a are not met.	
Summai properti	•	evaluation	of the	CMR	Based on met.	available data, t	he classifica	ation	criteria are not	
11.2 Practica	l experi	iences:								
	•	bservations:			No inform	ation available				
Other o	bservat	tions:			No inform	ation available				
11.3 General	notes:									



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Trading name:	HISTANOL 100						
Product code:	H100-X**	Revision date:	13 May 2019	Version:			

SECTION 12. E	cologic	cal informat	ion						
12.1 Toxicit	у								
Acute (short-te toxicity	rm)	Dose	Exposur time	e	Species	Method	Eva	aluation	Note
Fish		LC ₅₀	96 hours	: !	No information available	No information available	No inforr availa	mation Ible	-
Crustacea:		EC ₅₀	48 hours	: :	No information available	No information available	No inforr availa	mation Ible	-
Algae/aquatic p	olants	IC ₅₀	4 days		No information available	No information available	No inforr availa	mation Ible	-
Other organism	ıs	-	-		-	-	-		-
Chronic (long-t toxicity	erm)	Dose	Exposur time	e	Species	Method	Eva	aluation	Note
Fish		LC ₅₀	96 hours	: :	No information available	No information available	No inforr availa	nation Ible	-
Crustacea:		EC ₅₀	48 hours		No information available	No information available	No inforr availa	nation Ible	-
Algae/aquatic p	olants	IC ₅₀	72 hours		No information available	No information available	No inforr availa	mation ible	-
Other organism	ıs	_	-		-	-	-		-
		nd degradab	ility						
Abiotic	degra	dation		1		1			
	De	gradation ha	alf-lives		Method	Evaluatio	n		Note
Marine water	No ir	nformation a	vailable		information ailable	No information available		-	
Fresh water	No information available			information ailable	No information available		-		
Air	No ir	No information available			information ailable	No information	n	-	
l Soil - I No intormation available -			information ailable	No information available		-			
ï	•								
i	gradatio								
% Degradation	on	Time (c	lays)		Method	Evaluatio	on		Note



											Pag	ge 12 of 16	0
Tradin	g name:					H	HISTA	NOL 1	L 00				
Produc	ct code:	H100-X*	*		Revision date:		13	13 May 2019		٧	ersion:		
					i			i	-				
	No information available No information available				_	No information available		No information available					
		•			•								
12.3	Bioaccumu	ılative pote	ntial										
	Octanol-w	ater partiti	on coeff	icient (log Kow)							
Valu	e Cor	ncentration	р	Н	°C	Ме	ethod		Evalu	ation		Note	
-	-		_		-	-		-			-		
	Bioconcen	tration fact	or (BCF)										
V	'alue	Sį	oecies			Method	l	Evaluation		Note			
No info	ormation le	No available	inform	ation	tion No information available		No information available		-				
	Chronic ec	otoxicity											
	i .	-	_	Exp	osure								
	Value		Dose	time		Spe	ecies	M	ethod	Evalı	uation	Note	e
Chronic	toxicity on	fish Lo	- -50	No information available		No inforr availa	nation able	No infoi avail	rmation lable	No inform availa		-	
				No		No		No		No			
	toxicity on ea (<i>Daphnia</i>)) E(C ₅₀	1	mation able	1	mation ible	information info		inform availa		-	
		•		•		•		•		•		•	
12.4	Mobility in	soil											
	Known or predicted distribution in environmental compartments:												
	No inform	ation availa	ıble										
	Surface ter	nsion:											
	Value		°C	С	oncentra	ition		Met	thod			Note	
	No informatio available	No n inforn availa			informa iilable	tion		lo information		-			



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Trading name:	HISTANOL 100				
Product code:	H100-X**	Revision date:	13 May 2019	Version:	

	Adsorption / desorption					
Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note	
Soil-wate	r No information available	No information available	No information available	No information available	-	
Water-air	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 l	Results of PBT and vPvB asset	ssment				
	Not applicable.					
12.6	Other adverse effects					
	No further relevant information	on available.				
SECTION	13. Disposal consideration	s				
13.1	Waste treatment methods					
1711	Due do et /De also sin e dien e e	ı.				
13.1.1.	Product/Packaging disposal Submit for disposal to the l		rized by the Ministr	v of Environmental	and Nature	
	Protection.	egai person autho	Tized by the Willist	y or Environmental	and Nature	
13.1.2.	Waste codes/waste designa	ntions according to	Law:			
	Packaging that contains res	idual hazardous sı	ubstances or is cont	aminated with haza	ardous substances	
13.1.3.	Waste treatment – relevant	information.				
13.1.3.	No information available	momation.				
	:					
13.1.4.	Sewage disposal – relevant information:					
	Waste must not be dispose	d of into the sewa	ge system.			
13.1.5.	Other disposal recommend	ations:				
	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.					



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Trading name:	HISTANOL 100				
Product code:	H100-X**	Revision date:	13 May 2019	Version:	

13.1.6. Relevant Community provisions:			
Disposal must be made accord	ing to official regulations.		
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		



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Trading name:	HISTANOL 100				
Product code:	H100-X**	Revision date:	13 May 2019	Version:	

UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTI	ON 15. Regulatory informa	ation					
15.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture					
	EU regulations	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						

SECTION 16. Other information			
16.1	Indication of changes:	-	



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Trading name:	HISTANOL 100				
Product code:	H100-X**	Revision date:	13 May 2019	Version:	

		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:	Manufacturer's MSDS file.				
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)				
Classifi	cation	Classification procedure				
_		-				
16.5.	Relevant H statements (number	er and full text)				
	H: H225	Highly flammable liquid and vapor.				
16.6.	Training advice:	-				
		** "X" in the product code marks different volumes (different packagings of the product)				
16.7.	i	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



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

Page 1 of 17

Trade name:	BIOCLEAR NEW				
Product code:	BCN-X**	Date of compilation:	15 Feb 2019	Version:	5

SECTI	ON 1: Identification of	the su	ıbstance/mixture aı	nd of the company/undertaking			
1.1.	Product identifier						
	Trade name:	Bio	BioClear New				
	Chemical name:	-	-				
	Catalogue number:	BCI	V-X**				
1.2.	Relevant identified us	es of t	he substance or mix	ture and uses advised against			
	Uses:		Xylene substitute fo	or tissue processing, deparaffinization and clearing.			
	Uses advised against:		Only the identified	uses are advised.			
	Reason why uses advised re		registered at the A	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	e safety data sheet				
	Supplier:		BioGnost Ltd.	BioGnost Ltd.			
	Address:		Medjugorska 5	Medjugorska 59, Zagreb			
	Telephone number:		+385 1 240999	+385 1 2409997			
	Telefax:		+385 1 240403	+385 1 2404039			
	e-mail of competent p	ersor	n: <u>msds@biogno</u>	msds@biognost.hr			
	National contact:		-	-			
1.4.	Emergency telephone	numb	pers				
	National Protection and Rescue D		scue Directorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

CECTIC	SECTION 2. Hazards identification						
SECTIO	SECTION 2. Hazards identification						
2.1.	Classification of the substan	ce or mixture					
2.1.1.	Classification according to F	Regulation (EC) No 12	72/2008 (CLP)				
	Hazard class and category code: Warning statements*:						
	Aspir. Tox. 1		H304				
2.1.2.	Additional information	Additional information					
	EUH066						
* For fu	ull text of Hazard- and EU Haz	ard-statements: see S	ECTION 16				
2.2.	Label elements						
	Product identification: BioClear New						
	Identification number: -						
	Authorisation number:	Authorisation number: -					



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

Page 2 of 17

Trade name:	BIOCLEAR NEW				
Product code:	BCN-X**	Date of compilation:	15 Feb 2019	Version:	5

	Hazard pictograms:	GHS08
	Signal word:	Danger
	Hazard statement:	H304 May be fatal if swallowed and enters airways. EUH066 Repeated exposure may cause skin dryness or cracking.
	Precautionary statements:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Do NOT induce vomiting. P370+P378 In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO ₂) for extinction. P403+P235 Store in a well-ventilated place. Keep cool.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	-	

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)				
-/ 920-901-0/ -	01-2119456810-40	100%	Hydrocarbons, C11- C13, isoalkanes, <2% aromatics	Aspir. tox. 1; H304 EUH066				

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. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to mouth resuscitation.				



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

Page 3 of 17

Trade name:	BIOCLEAR NEW				
Product code:	BCN-X**	Date of compilation:	15 Feb 2019	Version:	5

	Following eye contact:		Remove contaminated clothing. Thoroughly wash with water and soap for 15 minutes.		
			Rinse the eyes using mild jet of clean water for at least 15 minutes with the eyelids held wide open. Contact a physician if irritation occurs.		
	Following ingestion:		DO NOT induce vomiting. Seek immediate medical attention.		
	Self-protection of the first aider		-		
4.2.	Most important sympt	t important symptoms and effects, both acute and delayed			
	Following inhalation:	Respiratory system irritation, headache, vertigo, nausea and faint may of during exposure to vapor concentrations above recommended level. It ract as an anesthetic and affect central nervous system.			
	Following skin contact:		onged and/or repeated exposure to low viscosity content may cause skin ess or cracking. May be irritating to the eyes, nose, throat and lungs.		
	Following eye contact:		rritation may occur during exposure to vapor concentrations above mmended level.		
	Following ingestion:		swallowing occurs, material may be aspirated into the lungs and cause emical pneumonitis. Treat appropriately.		
4.3.	Indication of any immediate medical attention and special treatment needed				
	-				

SECTIO	SECTION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:	Water spray, foam, dry powder, CO ₂				
	Unsuitable extinguishing media:	Straight streams of water				
5.2.	Special hazards arising from the subs	tance or mixture				
	Hazardous by products of fire: S	moke, fume, incomplete combustion products, carbon oxydes.				
5.3.	Advice for firefighters					
	Evacuate the area. Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing). Use water spray to cool fire exposed surfaces and to protect personnel.					
5.4.	Additional information					
	-					

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					



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	Protective equipment: Accident prevention methods:		When disposing of small quantities use protective clothing. When disposing of large quantities use self-contained open-circuit compressed air breathing apparatus or self-contained closed-circuit air breathing apparatus.		
			Secure a safety zone, remove all ignition sources, and in case of an accident inform the Emergency service (112) and the manufacturer or sender. Position a prohibition sign with symbols of flame and devices that cause sparks.		
	Emergency procedures:		Remove or neutralize all factors that may exacerbate the condition, use all allowed means of containing the situation and use recommended means of personal protection.		
6.1.2.	For emergency responders	5:			
	Self-contained open-circuit compressed air breathing apparatus, a set for protecting the body from heat dissipation (fireproof clothing).				
6.2.	Environmental precautions:				
	•	•	nt further spillage of chemicals. Prevent environmental pollution by the sewage system, surface water or groundwater.		
6.3.	Methods and materials for	containm	ent and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand p	rotective barrier or barriers made of similar materials		
6.3.2.	Cleaning up:	Sawdus	st, sand, mineral adsorbents		
6.3.3.	Other information:	spills a	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112).		
6.4.	Reference to other section	S			
	See Section 7 for informat		-		
			personal protective equipment.		
	See Section 13 for informa	ition abou	t containment.		

SECTIO	SECTION 7. Handling and storage					
7.1.	Precautions for safe handling	Precautions for safe handling				
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of ignition and heat. Do not use tools that cause sparks.				
	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:	-				
7.1.2.	Advice on general occupational hygiene:					



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	oroughly wash hands after work and before eating. Avoid				
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures ar	nd storage conditions:	Keep in a cool and well-ventilated place. Keep away from heat and direct solar radiation.		
	Packaging materials:		Teflon, polypropylene, stainless steel, carbon steel.		
	Requirements for stor	age rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed. Store in a cool, well-ventilated area.		
	Advices for storage ec	quipment:	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		n storage conditions:	Suitable materials and coating are teflon, polypropylene, polyethylene, stainless steel, carbon steel. Unsuitable materials and coatings include ethylene propylene diene monomer (EPDM), natural rubber, polystyrene, butyl rubber.		
7.3.	Specific end use(s)				
	Recommendations:	This product attracts static electricity that may cause electrical sparking (ignisource) that may ignite flammable vapors of the liquid. The liquid is usually a isolator if its conductivity level is under 100 pS/m. It is considered a semiconductor that attracts static electricity if its conductivity level is less that 10,000 pS/m. Regardless of the type of the liquid (izolator or semiconductor) precautions are the same. Numerous factors, such as the liquid temperature, contaminants, antistatic additives and filtration may severely influence the liquid conductivity.			
	Industrial sector specific solutions:	-			

SECTION 8. E	SECTION 8. Exposure controls/personal protection							
8.1. Cont	rol parameters							
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values		
				ppm	mg/m³	Ç		
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics		-		171*	1200*	No information available		
* Source - ma	terial safety dat	a sheet provide	d by	the raw materia	ls supplier			
Substance: -								
EC No:	-	CAS No:	_					
DNEL	DNEL							



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Product co		DCIN-X	Date of Cor	12.1.2.2.2.	15 Feb 20		version. 5
			Ir	dustrial			
Route of ex	posure:	Route of exposure:	Route of ex	posure:	Route of e	xposure:	Route of exposure:
Oral		-	-		-		-
Inhalation		-	-		-		-
Dermal		-	-		-		-
Critical phys	sical paraı	meters: solubility, fla	mmability, co	rrosivity:		-	
			C	onsumer	_		
Route of ex	posure:	Route of exposure:	Route of ex	posure:	Route of e	xposure:	Route of exposure:
Oral		-	-		-		-
Inhalation		-	-		-		-
Dermal		-	-		-		-
PNEC							
Environmental protection target PNEC							
Fresh water				No information available			
Freshwater	sediment	S		No information available			
Marine wat	er			No information available			
Marine sedi	ments			No infor	mation avail	able	
Food chain				No information available			
Microorgan	isms in se	ewage treatment		No infor	mation avail	able	
Soil (agricul	tural)			No infor	mation avail	able	
Air				No infor	mation avail	able	
8.2.	Exposur	e controls					
8.2.1.	Appropi	riate engineering co	ntrols				
	measure	ce/mixture related es to prevent exposu dentified uses:	ot eat, drink or smoke in the workspace. Use personal ective equipment. Wash hands after handling the product and re eating and/or drinking.				
	Structur exposur	al measures to preve e:		Adequate ventilation should be provided so that exposure lare not exceeded. Use explosion-proff ventilation equipmen			•
	_	ational measures to exposure:		Organization of work in order to reduce other worker's influence during work process.			
	Technica exposur	al measures to preve e:	ent See Se	See Section 7.2			
8.2.2.	Persona	l protection equipm	ent:				



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8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection			
	Hand protection:	In case prolonged or repeated contact with the product, use nytril rubber protective gloves (EN 374).		
	Other skin protection:	Wear full protective suit that protects from chemicals (EN 340) and shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	If the concentration level exceeds the GVI values (or because of inadequate ventilation), use full gas mask (EN 136) equipped with a recommended filer type A.		
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			

SECTI	ON 9. Physical and chemical prop	perties			
9.1.	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	No information available		
	Colour:	colourless	No information available		
	Odour:	faint	No information available		
	Odour threshold;	No information available	No information available		
	рН:	No information available	No information available		
	Melting point / freezing point;	No information available	No information available		
	Initial boiling point and boiling range:	170 - 250 °C	No information available		
	Flash point:	62 °C	No information available		
	Evaporation rate:	0,05 (n-Butyl acetate = 1)	No information available		
	Flammability (solid, gas):	No information available	No information available		



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9.2.	Other information					
	Oxidising properties:	No information available	No information available			
	Explosive properties:	No information available	No information available			
	Viscosity:	1.3 cSt (1.3 mm ² /sec) at 20 °C 2.5 cSt (2.5 mm ² /sec) at 20 °C	No information available			
	Decomposition temperature:	No information available	No information available			
	Auto-ignition temperature:	> 200 °C	No information available			
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available			
	Solubility(ies):	Negligible	No information available			
	Bulk density:	No information available	No information available			
	Relative density	0.731 – 0.851 (15 °C)	No information available			
	Vapour density:	> 1 at 101 kPa (Air = 1)	No information available			
	Vapour pressure:	0.04 kPa (0.3 mm Hg) at 20 °C	No information available			
	Upper/lower flammability or explosive limits:	lower: 0.6 upper: 7.0	No information available			

SECTION 10.: Stability and reactivity				
10.1.	Reactivity:	No information available		
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:	Hazardous polymerization will not occur.		
10.4.	Conditions to avoid:	Open flames and high energy ignition sources.		
10.5.	Incompatible materials:	Strong oxidants.		
10.6.	Hazardous decomposition products:	Product decomposition will not occur at ambient temperature.		

SECTION 11. Toxicological information								
11.1. Informati	ormation on toxicological effects							
Acute toxicity:								
Route of exposure:	Method	Species	Effective Dose Exposure LD ₅₀ /LC ₅₀ or ATE _{mixture} time		Results			
Oral:	No information available	rat	LD ₅₀ > 5000 mg/kg -		Minimal toxicity.			
Dermal:	No information available	rabbit	LD ₅₀ > 5000 mg/kg	-	Minimal toxicity.			



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Trade name:				BIOCL	EAR NEW					
Product code:	BCN-X**	Da	te of co	empilation: 15 Feb 2019			Version:		5	
Inhalation:	No informa available	tion rat		LC ₅₀ > 5000 mg/kg		4 h	4 h		Minimal toxicity	
Specific	target organ toxic		<u> </u>	ure (STOT-SE)						
	-	Specific effects			Target organ			Note		
Oral:	No information					-				
Dermal:	No information	n availabl	ilable No information avail		ailable	-				
Inhalation:	No information available			No information available			-			
Aspirati	on hazard:		Insi	ignificant dan	ger at normal h	andling	temperati	ure.		
			3				<u> </u>			
Irritation	n and corrosion									
	Exp	osure time	9	Species	Evaluatio	n	Method		Note	
Skin corrosion/irritation	No inform	ation avail	lable	rabbit	Not irritating.	Ol	OECD		_	
Serious eye damage/irritation	No inform	ation avail	n available rabb		Not irritating.	nc	not specified		_	
:	·				·					
Sensitiz	ation									
Skin sensitization	: Not expect	ed to be a	skin se	nsitizer.						
Respiratory Sensitization: Not expected to			respira	tory sensitize	·.					
Sympto	ms related to the	ohysical, c	hemical	and toxicolog	gical characteris	stics				
Oral exposure:	Symptoms related to the physical, chemical and toxicological characteristics Oral exposure: If swallowing occurs, aspiration of the vomit may also occur and cause chemical pneumon or pulmonary oedema.								eumonit	
Dermal exposure: Prolonged and/or repeated exposure to low viscosity content may cause irritation dermatitis, skin drying or cracking.						tion a	nd			
innalation : ' '			n irritation, headache, vertigo, nausea and faint may occur during exposure ations above recommended level. It may also act as an anesthetic and ous system.							
Eye exposure:	Eye irritation i	nay occur	during	exposure to v	apor concentra	itions ak	ove recon	nmen	ded leve	
i										
Repeate	ed dose toxicity (su	ıbacute, sı	ubchron	nic, chronic)						
	Dose	Exposi time		Species	Method	Eval	uation	Not	ie	
Subacute oral	No information available	No informat available	tion	No information available	No information available	_	rmation lable	-		



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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	-

	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, mutagenicit	ty, reproductive toxicity)
Carcinogenicity:	No carcinogenicity studies were made, but since the product is not mutagenic and causes a minimal level of toxicity, it can be assumed that chronic exposure will not cause tumors.



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	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.	Practical experiences:	
	Classification observations:	No information available
	Other observations:	No information available
11.3.	General notes:	
	tract, may cause headaches and dizzines: Prolonged and/or repeated skin contact	ded exposure levels are irritating to the eyes and the respiratory s, are anasthetic may have other central nervous system effects. with low viscosity materials may defat skin resulting in possible of liquid aspirated into the lungs during ingestion or from tis or pulmonary edema.

SECTION :	12. Ecologic	cal information
-----------	--------------	-----------------

12.1. Toxicity Acute (short-term) Exposure Dose **Species** Method Evaluation Note toxicity time No No Fish: LC_{50} 96 hours information information available available No No Crustacea: EC_{50} 48 hours information information available available No No Algae/aquatic IC_{50} 72 hours information information plants: available available Other organisms: Chronic (long-Exposure Dose **Species** Method Evaluation Note term) toxicity time No No No No information Fish: LC_{50} 96 hours information information information available available available available



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Crustacea:	EC ₅₀	48 hours	No information available	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	No information available
Other organisms:	-	-	-	-	-	-

12.2. Persistence and degradability

Abiotic degradation

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

Biodegradation					
radation	Time (days)	Method	Evaluation	Note	
rmation	No information	No information	No information	No information	

% Degra No inform available available available available available

12.3. Bioaccumulative potential

Octanol-water partition coefficient (log Kow)

Value	Concentration	рН	°C	Method	Evaluation	Note
No information available	No information available	-	_	No information available	No information available	No information available

Bioconcentration Factor (BC	.F)
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Bioconcentration Factor (BCF)						
Value	Species	Method	Evaluation	Note		



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Trauc i	name:					ВІ	OCLE	AR NEW			
Produc	t code:	ВС	N-X**	Da	te of co	mpilati	on:	15 Feb 2019	٧	ersion:	5
No info availabl	rmation e		information ilable		No info	ormatior ble	1	No information available		No inforr available	mation
	Chroni	ic ecoto	kicity	_							
	Value	9	Dose		osure me	Spe	ecies	Method	Eva	aluation	Note
Chronic toxicity on fish LC ₅₀		No inform availal		No inform availat		No information available	No infor avail	mation able	Not expected		
Chronic toxicity on crustacea (Daphnia)		EC ₅₀	No information available		No information available		No n information available		No information available		
12.4.	Mobilit	ty in soi									
	Known	or pred	licted distribu	ition in e	environm	nental co	ompart	tments:			
		or pred e tension		ition in e	environm	nental co	ompart	tments:			
		e tensio			environm oncentra		omparl	tments: Method		N	ote
	Surface	e tension	ղ:	C		ation ation		Method formation	_	N	ote
	Surface Val No informa	e tension	n: °C No information	C	oncentra informa	ation ation	No int	Method formation	-	N	ote
	Surface Val No informa availab	e tension lue nation ole	n: °C No information	C	oncentra informa	ation ation	No int	Method formation	-	N	ote
Transpo	Surface Val No informa availab	e tension lue nation ole otion / d	n: °C No information available	C	oncentra informa ailable	ation ation	No intavailal	Method formation		N	ote
Transpo Soil-Wa	Surface Val No informa availab Adsorp	e tension lue le de la dela de	n: °C No information available esorption coefficient	No ava	oncentra informa ailable	ation ation	No infavaila	Method formation ble	M	lethod	
	Surface Val No informa availab Adsorp	e tension lue nation ble ption / d A/E Hen	n: °C No information available esorption coefficient ry's constant	No ava	oncentra informa ailable log lo ir vailable	ation ation Kow	No intavailation	Method formation ble Evaporation rate	M No infor avail	lethod mation able	Note



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	No information available
12.6.	Other adverse effects
	No information available
	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection. Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.
13.1.2.	Waste codes/waste designations according to Law:
	European Waste Code: 08 XX XX
	These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).
13.1.3.	Waste codes/waste designations according to Law:
	Incinerating the product at high temperatures is recommended in order to avoid incomplete combustion products.
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Empty Container Warning: Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. Do not pressurise, cut, weld, braze, solder, drill, grind of expose such containers to heat, flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death.
13.1.6.	Relevant Community provisions:
13.1.0.	



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Transporting/shipment by road (ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inland	waterways (ADN)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
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:	-
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 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:	-
Environmental hazards:	-



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Special precautions for user:	-
Further information: -	

15.1.	ON 15. Regulatory information Safety, health and environ	nmental regulations/legislation specific for the substance or mixture			
	EU regulations				
	Authorisations and/or res	strictions on use			
	Authorisations:	-			
	Restrictions:	-			
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances; EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives			
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessme	ent			
	None				

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



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Trade name:	BIOCLEAR NEW					
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16.2.		oreviations and onyms:	PBT vPvB LD ₅₀ LC ₅₀ STOT-SE	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity – single exposure	
16.3.		literature references I source of data:	-		
16.4.	6.4. Classification and procedure 1272/2008 (CLP)		used to derive	the classification for mixture according to Regulation (EC)	
Classifi	Classification		Classification procedure		
_	-		-		
16.5.	Rele	evant H statements (num	ber and full text)	
	H:	304	May be fatal if swallowed and enters airways.		
		(EUH066)	Repeated expo	osure may cause skin dryness or cracking.	
16.6.	Trai	ining 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



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Trade name:	BIOMOUNT NEW LOW				
Product code:	BMNL-X**	Date of compilation:	04 June 2019	Version:	3

SECTI	ON 1: Identification of	the su	ıbstance/mixture aı	nd of the company/undertaking		
1.1.	Product identifier					
	Trade name: BIOMO		MOUNT NEW LOW			
	Chemical name:	-				
	Catalogue number:	ВМ	NL-X**			
1.2.	Relevant identified us	es of t	he substance or mix	ture and uses advised against		
	Uses:		For covering micro	scope sections and mounting covering glasses.		
	Uses advised against:		Only the 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.	BioGnost Ltd.		
	Address:		Medjugorska 5	Medjugorska 59, Zagreb		
	Telephone number:		+385 1 240999	+385 1 2409997		
	Telefax:		+385 1 240403	+385 1 2404039		
	e-mail of competent p	ersor	n: <u>msds@biogno</u>	msds@biognost.hr		
	National contact:		-	-		
1.4.	Emergency telephone numbers					
_	National Protection ar	nd Res	scue 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: Warning statements*:			
	Aspir. Tox. 1		H304	
2.1.2.	Additional information			
	EUH066			
* For fu	ıll text of Hazard- and EU Haza	ırd-statements: see S	SECTION 16	
2.2.	Label elements			
	Product identification:	BIOMOUNT NEV	W LOW	
	Identification number:	-		
	Authorisation number:	-		



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	Hazard pictograms: Signal word:	GHS08 Danger		
	Jigilal Wolu.			
	Hazard statement:	H304 May be fatal if swallowed and enters airways. EUH066 Repeated exposure may cause skin dryness or cracking.		
	Precautionary statements:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Do NOT induce vomiting. P403+P235 Store in a well-ventilated place. Keep cool.		
	Supplemetal hazard information (EU):	-		
2.3.	Other hazards			

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)		
-/ 920-901-0/ -	01-2119456810-40	60-80%	Hydrocarbons, C11- C13, isoalkanes, <2% aromatics	Aspir. tox. 1; H304 EUH066		

SECTI	SECTION 4. First aid measures			
4.1. Description of first aid measures		sures		
	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. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to mouth resuscitation.		
	Following skin contact:	Remove contaminated clothing. Thoroughly wash with water and soap for 15 minutes.		



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	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 15 minutes with the eyelids held wide open. Contact a physician if irritation occurs.
	Following ingestion:	DO NOT induce vomiting. Seek immediate medical attention.
	Self-protection of the f	first _
4.2.	Most important sympt	oms and effects, both acute and delayed
	Following inhalation:	Respiratory system irritation, headache, vertigo, nausea and faint may occur during exposure to vapor concentrations above recommended level. It may also act as an anesthetic and affect central nervous system.
	Following skin contact:	Prolonged and/or repeated exposure to low viscosity content may cause skin dryness or cracking. May be irritating to the eyes, nose, throat and lungs.
	Following eye contact:	Eye irritation may occur during exposure to vapor concentrations above recommended level.
	Following ingestion:	If swallowing occurs, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.
4.3.	Indication of any imme	ediate medical attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures			
5.1.	Extinguishing media			
	Suitable extinguishing media:	Water spray, foam, dry powder, CO ₂		
	Unsuitable extinguishing media:	Straight streams of water		
5.2.	Special hazards arising from the sul	bstance or mixture		
	Hazardous by products of fire:	Smoke, fume, incomplete combustion products, carbon oxydes.		
5.3.	Advice for firefighters			
	Evacuate the area. Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing). Use water spray to cool fire exposed surfaces and to protect personnel.			
5.4.	Additional information			
	-			

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equ	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment:	When disposing of small quantities use protective clothing. When disposing of large quantities use self-contained open-circuit compressed air breathing apparatus or self-contained closed-circuit air breathing apparatus.			



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	Accident prevention met	Secure a safety zone, remove all ignition sources, and in case of an accident inform the Emergency service (112) and the manufacturer or sender. Position a prohibition sign with symbols of flame and devices that cause sparks.			
	Emergency procedures:	Remove or neutralize all factors that may exacerbate the condition, use all allowed means of containing the situation and use recommended means of personal protection.			
6.1.2.	For emergency responde	rs:			
	Self-contained open-circuit compressed air breathing apparatus, a set for protecting the body from heat dissipation (fireproof clothing).				
6.2.	Environmental precautions:				
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.				
6.3.	Methods and materials fo	or containment 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:	Sawdust, sand, mineral adsorbents			
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112).			
6.4.	Reference to other section	to other sections			
	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	SECTION 7. Handling and storage					
7.1.	Precautions for safe handling	Precautions for safe handling				
7.1.1.	Protection measures					
	Measures to prevent fire: Keep away from sources of ignition and heat. In not use tools that cause sparks.					
	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:	-				
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. Avoid skin contact.					
7.2.	Conditions for safe storage, including any incompati	bilities				



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	Technical measures a	nd storage conditions:	Keep in a cool and well-ventilated place. Keep away from heat and direct solar radiation.		
	Packaging materials:		Teflon, polypropylene, stainless steel, carbon steel.		
	Requirements for stor	rage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed. Store in a cool, well-ventilated area.		
	Advices for storage ed	quipment:	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 o	n storage conditions:	Suitable materials and coating are teflon, polypropylene, polyethylene, stainless steel, carbon steel. Unsuitable materials and coatings include ethylene propylene diene monomer (EPDM), natural rubber, polystyrene, butyl rubber.		
7.3.	Specific end use(s)				
	Recommendations:	This product attracts static electricity that may cause electrical sparking (ignitic source) that may ignite flammable vapors of the liquid. The liquid is usually an isolator if its conductivity level is under 100 pS/m. It is considered a semiconductor that attracts static electricity if its conductivity level is less than 10,000 pS/m. Regardless of the type of the liquid (izolator or semiconductor), precautions are the same. Numerous factors, such as the liquid temperature, contaminants, antistatic additives and filtration may severely influence the liquid conductivity.			
	Industrial sector specific solutions:	-			

SECTIO	SECTION 8. Exposure controls/personal protection								
8.1.	Contr	Control parameters							
Substance			CAS No		Occupational exposure limit values/short term values		Biological limit values		
						ppm	mg/m³		
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics			-		171*	1200*	No information available		
* Source	e - mat	erial sa	fety data	a sheet prov	ided by	the raw material	s supplier		
Substan	ce:	-							
EC No:		-		CAS No:	-				
DNEL									
	Industrial								
Route of exposure: Route of exposure:				Route	of exposure:	Route of exposure: Route of expo		Route of exposure:	



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Trade name:				E	IOMOU	NT NEW LOW				
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						<u> </u>				
Oral		-	-			-	-			
Inhalation		-	-			-	-			
Dermal		-	-			-	-			
Critical physical	parai	meters: solubility	, flammal	bility, cor	rosivity:	-				
				Coi	nsumer	I				
Route of exposi	ure:	Route of exposure:	Rou	te of exp	osure:	Route of exposure:	Route of e	xposure:		
Oral		-	-			-	-			
Inhalation		-	-			-	-			
Dermal		-	-			-	-			
PNEC										
Environmental	prote	ction target			PNEC					
Fresh water					No infor	mation available				
Freshwater sedi	iment	S			No information available					
Marine water				No information available						
Marine sedimer	nts			No information available						
Food chain				No information available						
Microorganisms	s in se	ewage treatment		No information available						
Soil (agricultura	ıl)			No information available						
Air				No information available						
8.2. Ex	posur	e controls								
8.2.1. Ap	propi	riate engineering	controls							
Su	bstan	ce/mixture relate	ed	Do not eat, drink or smoke in the workspace. Use personal						
		es to prevent exp	osure	protective equipment. Wash hands after handling the product and before eating and/or drinking.						
		dentified uses:		Adequate ventilation should be provided so that exposure limits						
	posur	al measures to p e:	revent			. Use explosion-proff	•			
	-	ational measures exposure:	s to	Organization of work in order to reduce other worker's influence during work process.						
Te	Technical measures to prevent exposure:			See Section 7.2						
		l protection equi	ipment:	i						
	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.					covers the				
8.2.2.2. Sk	in pro	tection		.i						



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	Hand protection:	In case prolonged or repeated contact with the product, use nytril rubber protective gloves (EN 374).			
	Other skin protection:	Wear full protective suit that protects from chemicals (EN 340) and shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.			
8.2.2.3.	Respiratory protection:	If the concentration level exceeds the GVI values (or because of inadequate ventilation), use full gas mask (EN 136) equipped with a recommended filer type A.			
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			

SECTI	ECTION 9. Physical and chemical properties					
9.1.	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	colourless	No information available			
	Odour:	faint	No information available			
	Odour threshold;	No information available	No information available			
	рН:	No information available	No information available			
	Melting point / freezing point;	No information available	No information available			
	Initial boiling point and boiling range:	170 - 250 °C	No information available			
	Flash point:	62 °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			



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	Relative density	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	Negligible	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	> 200 °C	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
9.2.	Other information		
	-		

SECTIO	ECTION 10.: Stability and reactivity							
10.1.	Reactivity:	No information available						
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:	Hazardous polymerization will not occur.						
10.4.	Conditions to avoid:	Open flames and high energy ignition sources.						
10.5.	Incompatible materials:	Strong oxidants.						
10.6.	Hazardous decomposition products:	Product decomposition will not occur at ambient temperature.						

SECTION 11. To	oxicological informatio	n						
11.1. Inform	ation on toxicological ef	fects						
Acute ·	toxicity:							
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposu time	Results			
Oral:	No information available	rat	LD ₅₀ > 5000 mg/kg	-	-			
Dermal:	No information available	rabbit	LD ₅₀ > 5000 mg/kg	-	-			
Inhalation:	No information available	rat	LC ₅₀ > 5000 mg/kg	4 h	-			

Specifi	c target organ toxicity -	single exposur	e (STOT-SE):					
	Specifi	c effects	Target orga	an	Note			
Oral:	No information ava	o information available - No information available -						



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_										
Dermal:		o informatio			<u> </u>	information availa		-		
Inhalation:	N	o informatio	n available		No	information availa	able	-		
Aspirati	on haz	ard:		Insignificant	dan	ger at normal han	dling	temperatu	re.	
		•								
Irritation	n and d	corrosion	acuma tima a	Cno	ciac	Evoluation		Mathad	1	Note
Skin		Expo	osure time	Spe	cies	Evaluation		Method		Note
corrosion/irritation	on	No informa	ation available	rabbit		Not irritating.	OE	CD		-
Serious eye damage/irritation No inform		No informa	ation available	rabbit		Not irritating.	no	t specified		-
Sensitiz	ation									
Skin sensitization	1:	Not expecte	ed to be a skir	sensitizer.						
Respiratory sensitization:		Not expecte	ed to be a respiratory sensitizer.							
Sympto	ms rela	ated to the p	hysical, chem	ical and toxi	colog	gical characteristic	S			
Oral exposure:		swallowing of pulmonary	•	ion of the vo	omit	may also occur an	ıd cau	se chemica	al pne	eumonitis
Dermal exposure		_	d/or repeated exposure to low viscosity content may cause irritation and a drying or cracking.							nd
Inhalation			stem irritation, headache, vertigo, nausea and faint may occur during exposure entrations above recommended level. It may also act as an anesthetic and							•
exposure:	af	fect central r	nervous syster	n.						
Eye exposure:	Еу	e irritation n	nay occur duri	ng exposure	e to v	apor concentration	ns ab	ove recom	meno	ded level.
Repeate	ed dose	e toxicity (su	bacute, subch	ronic, chron	ic)					
		Dose	Exposure time	Speci	es	Method	Eval	uation	Note	е
Subacute oral	No i	nformation able	No information available	No informat available		No information available	No infor avail	mation able	-	
Subacute dermal	No i avail	nformation able	No information available	No informat available		No information available	No infor avail	mation able	-	
Subacute inhalation	No i avail	nformation able	No No information available available available			No information available	No information - available		-	



Reproductive toxicity:

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Subchronic oral	No information available	No information available	No information available	No information available	No information available	on	-	
Subchronic dermal	c No information available No information available		No information available	No information available	No information available	on	-	
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	on	-	
Chronic oral	No information available	No information available	No information available	No information available	No information available	on	-	
Chronic dermal	ronic dermal No information available		No information available	No information available	No information available	on	-	
inhalation available		No information available	No information available	No information available	No information	on	-	
Specific	target organ toxi	city - repeated of Specific e	•	-RE): Target or	gan		Note	
Subacute oral		lo information a		No information a		_		
Subacute derma		lo information a		No information available		-		
Subacute inhalat		lo information a		No information available		-		
Subchronic oral	N	lo information a	available	No information available		-		
Subchronic dern	nal N	lo information available		No information available		-		
Subchronic inha	ation N	lo information a	available	No information available		-		
Chronic oral	١	lo information a	available	No information available		-		
Chronic dermal	١	lo information a	available	No information available		-		
Chronic inhalation	on N	lo information a	available	No information a	vailable	-		
CMR ef	fects (carcinogenio	city, mutagenicit	ty, reproductive	e toxicity)				
Carcino	Carcinogenicity:			nicity studies were c and causes a m chronic exposure	inimal level	of to	oxicity, it can be	
Mutage	Mutagenicity in-vitro:			on available				
Genoto	xicity:		No information	on available				
Mutage	enicity <i>in-vivo</i> :		No information available					
			No information available					

No information available



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				. age 11	U. =/
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	Summary of evaluation of the CMR properties; :	No information available
11.2.	Practical experiences:	
	Classification observations:	No information available
	Other observations:	No information available
11.3.	General notes:	
	-	

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	-	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-
Algae/aquatic plants:	IC ₅₀	72 hours	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	No information available
Crustacea:	EC ₅₀	48 hours	No information available	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	No information available
Other organisms:	-	-	-	-	-	-

12.2.	Persistence and degradability
	Abiotic degradation



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		Degradation	half-lives		N	1ethod		Evaluation		1	Note
Marine water	ſ	No information	available)	No inf availat	ormation ole	No information available			_	
Fresh water	ſ	No information available				No information available			_		
Air	1	No information available)	No inf availat	ormation ole		information lable		_	
Soil	١	No information available)	No inf availat	ormation ole		information lable		_	
Biode	egra	dation									
% Degradatio		Time (da	ys)		M	lethod		Evaluation		1	Note
No informatio available			rmation		o inforn vailable	nation		o information vailable		No inform available	ation
		nulative potent									
:		water partition		nt (I				F l			Nete
Value No		Concentration	рН	°C Metho		Method	Evaluation		Note		
information available		No information - available		-		No information available		on No information available		No information available	
Bioco	nce	ntration Factor	(BCF)								
Value		Spec	ies			Method		Evaluation			Note
No informatio available	n	No informat available	ion		No info	ormation ble	No information available			No information available	
Chror	nic e	ecotoxicity									
Valu	ie	Do	se E		osure ne	Species		Method	Εv	aluation	Note
Chronic toxicity on fish		n fish LC ₅₀	1	orm ilab	ation ole	No information available		No information available	1	rmation ilable	Not expected.



Trade name:						BIOMO	UNT	NEW LOW		
Produc	t code:	BN	/NL-	X**	Date of co	Date of compilation: 04 June 2019			Version: 3	
crustacea (Danhnia)		o No formation information vailable available			No information available	No information available	Not expected			
12.4.	Mobility in soil									
	Known or predicted distribution		n in environm	nental cor	npartn	nents:				
	Surface	tensio	n:			<u>.</u>				
	Valu	ue		°C	Concentra	ition		Method	N	ote
	No information available		No infor avail	mation able	No informa available		No information available		-	
Transpo	Adsorp	A/C) coef	otion ficient onstant	log	Kow	Εν	vaporation rate	Method	Note
Soil-Wa	ter No	No information available		No in	nformatio		information ailable	No information	-	
Water- <i>F</i>	Air No	No information available		No information available			information ailable	available No information available	-	
Soil-Air No		o inforn	nformation available		No information available			information ailable	No information available	-
Soil-Air		of PBT	and v	/PvB assess	available	nformatio			information	-

SECTION 13. Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal:



Special precautions for user:

UN number:

Transporting/shipment by rail (RID)

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	·			
	Protection. Do not dispose of the producollectors authorized by the ministry i	on authorized by the Ministry of Environmental and Nature ct's remains into the sewage system. Submit the remains to the n charge. Do not dispose of the packaging into the sewage lectors authorized by the ministry in charge.		
13.1.2.	Waste codes/waste designations accord	ing to Law:		
	contaminants resulting from actual use.	the most common uses for this material and may not reflect Waste producers need to assess the actual process used when its in order to assign the proper waste disposal code(s).		
13.1.3.	Waste codes/waste designations accord	ing to Law:		
		atures is recommended in order to avoid incomplete		
13.1.4.	Sewage disposal – relevant information:			
	Waste must not be disposed of into the sewage system.			
13.1.5.	Other disposal recommendations:			
	attempt to refill or clean containers wirdrained and safely stored until appropriation for recycling, recovery or disposaccordance with governmental regulation	tainers may contain residue and can be dangerous. Do not thout proper instructions. Empty drums should be completely riately reconditioned or disposed. Empty containers should be sal through suitably qualified or licensed contractor and in ons. Do not pressurise, cut, weld, braze, solder, drill, grind or sparks, static electricity or other sources of ignition. They may		
13.1.6.	Relevant Community provisions:			
	-			
SECTION	ON 14. Transport information			
	Transporting/shipment by road (ADR)			
UN num	mber: Not sub	ject to transport regulations.		
UN prop	pper shipping name: -			
Transpoi	ort hazard class(es):			
Packing	g group: -			
Environn	nmental hazards:			

Not subject to transport regulations.



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UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inland	waterways (ADN)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea (IM	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
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:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

SECTIO	ON 15. Regulatory information			
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorisations and/or restrictions on use			
	Authorisations: -			



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Trade name:	BIOMOUNT NEW LOW				
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	Restrictions:	-
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances; EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on 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	

SECTIO	ON 16	. Other information		
16.1.	Indi	ication of changes:	-	
16.2.		previations and pnyms:	PBT vPvB LD ₅₀ LC ₅₀ STOT-SE	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity – single exposure
16.3.	•	literature references source of data:	-	
16.4.		ssification and procedure 2/2008 (CLP)	used to derive	the classification for mixture according to Regulation (EC)
Classifi	catior	1	Classification	procedure
_			-	
16.5.	16.5. Relevant H statements (num		per and full text	t)
	H:	304	May be fatal i	f swallowed and enters airways.
	8 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8	(EUH066)	Repeated exp	osure may cause skin dryness or cracking.



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Trade name:		BIOMOUI	NT NEW LOW		
Product code:	BMNL-X**	Date of compilation:	04 June 2019	Version:	3

16.6.	Training advice:	-
16.7.	Further information:	** "X" in the product code marks different volumes (different packaging of the product)
10.7.	ruttiei illioilliatioil.	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 scena	rio resulting to Chemical safety assessment
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