

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



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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	Clear 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		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 and Rescue I		scue Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

CECTIC	ON 2 Haranda idantification	SECTION 2. Hazards identification					
SECTIO	JN 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to F	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	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:	identification number: -					
	Authorisation number:	-					



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	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	ECTION 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	TION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. 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.			



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	Following skin contact:	•	Remove contaminated clothing. Thoroughly wash with water and soap for 15 minutes.		
	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 first aider		-		
4.2.	Most important sympt	toms and effects, both acute and delayed			
	Following inhalation:	Respiratory system irritation, headache, vertigo, nausea and faint may occuduring exposure to vapor concentrations above recommended level. It may act 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 nemical pneumonitis. Treat appropriately.		
4.3.	Indication of any imme	of any immediate medical attention and special treatment needed			
	-				

SECTIO	ECTION 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 substance or mixture						
	Hazardous by products of fire: Smoke, fume, incomplete combustion products, carbon oxydes.						
5.3.	Advice for firefighters						
	apparatus and a set for protecting th	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						
	-						

SECTION 6. Accidental release measures					
6.1.	6.1. Personal precautions, protective equipment and emergency procedures				
6.1.1.					



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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.	6.1.2. For emergency responders:				
	Self-contained open-circui dissipation (fireproof cloth	circuit compressed air breathing apparatus, a set for protecting the body from heat clothing).			
6.2.	Environmental precautions	5:			
	•	•	nt further spillage of chemicals. Prevent environmental pollution by 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 p	rotective barrier or barriers made of similar materials		
6.3.2.	Cleaning up:	Sawdus	st, 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 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. 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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	Do not eat, drink or sr skin contact.	moke in the workspace. Th	oroughly wash hands after work and before eating. Avoid	
7.2.	Conditions for safe sto	orage, including any incom	npatibilities	
	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 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 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:	source) that may ignite isolator if its conductivit semiconductor that attr 10,000 pS/m. Regardles precautions are the sam	atic electricity that may cause electrical sparking (ignition flammable vapors of the liquid. The liquid is usually an ty level is under 100 pS/m. It is considered a facts static electricity if its conductivity level is less than is of the type of the liquid (izolator or semiconductor), ne. Numerous factors, such as the liquid temperature, additives and filtration may severely influence the liquid	
	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	J
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics		-		171*	1200*	No information available
* Source - ma	terial safety dat	a sheet provided	d by	the raw materia	ls supplier	
Substance: -						
EC No:	-	CAS No:	_			
DNEL						



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Product co		DCIN-X	Date of Cor	1,	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				
measures to prevent exposure pr		ire protec	Do not eat, drink or smoke in the workspace. Use personal protective equipment. Wash hands after handling the product and before eating and/or drinking.				
•			Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proff ventilation equipment.				
Organisational measures to prevent 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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.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

SECTIO	ON 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. Tox	icological informatio	n			
11.1. Informati	on on toxicological ef	fects			
Acute tox	ricity:				
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure 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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Inhalation:	No informa available	tion rat		LC ₅₀ > 50	000 mg/kg	4 h	N	1inima	al toxicity
Specific	target organ toxic		<u> </u>	ure (STOT-SE)					
		pecific effe			Target orga			Not	:e
Oral:	No information				information ava		-		
Dermal:	No information	n available	3	No	information av	ailable	-		
Inhalation:	No information	n available		No	information av	ailable	-		
Aspirati	on hazard:		Insi	ignificant dan	ger at normal h	andling	temperati	ıre.	
				<u> </u>			<u> </u>		
Irritation	n and corrosion								
	Exp	osure time		Species	Evaluatio	n	Method		Note
Skin corrosion/irritation	No inform	ation avail	able	rabbit	Not irritating.	Ol	ECD		_
Serious eye damage/irritation	No inform	ation availa	able	rabbit	Not irritating.	not specified		_	
:	·				·				
Sensitiz	ation								
Skin sensitization	n: Not expect	ed to be a	skin se	nsitizer.					
Respiratory sensitization:	Not expect	ed to be a	respira	tory sensitize	:				
Sympto	ms related to the _l	ohysical, ch	nemical	and toxicolog	gical characteris	stics			
Oral exposure:		occurs, asp			may also occur		ıse chemic	al pne	eumonit
Dermal exposure	Prolonged and dermatitis, ski	•	•		viscosity conter	nt may o	cause irrita	tion a	nd
Inhalation exposure:		entrations	above		go, nausea and d level. It may a		-	_	
Eye exposure:	Eye irritation ı	may occur	during	exposure to v	apor concentra	itions ab	ove recon	nmen	ded leve
Repeate	ed dose toxicity (su	bacute, su	bchron	ic, chronic)					
	Dose	Exposu time		Species	Method	Eval	uation	Not	e
Subacute oral	No information available	No informat available	ion	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
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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: EC₅₀ 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	-

Rind	learac	lation

% Degradation	Time (days)	Method	Evaluation	Note
No information available				

Bioaccumulative potential 12.3.

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	(BCF)	١

	ration Factor (BCF)			
Value	Species	Method	Evaluation	Note



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No information available			No information available		No information available		n	No information available		No information available	
	Chroni	ic ecoto	xicity								
	Value	e	Dose		osure me	Spe	ecies	Method	Ev	aluation	Note
Chronic	toxicity	y on fish	LC ₅₀	No inform availal		No inform availal		No information available	_	rmation lable	Not expected
Chronic crustace	-		EC ₅₀				nation ble	No information available	No information available		Not expected
12.4.	Mobili	ity in soi	l								
	Knowr	n or pred	dicted distribu	ition in e	environm	nental co	ompar	tments:			
				ition in (environm	nental co	ompar	tments:			
	Surfac	n or pred ce tensio			environm Concentra		ompar	tments: Method		N	ote
	Surfac	te tensio	n:	No		ation		Method formation	-	N	ote
	Surface Val No inform	te tensio	n: °C No information	No	oncentra informa	ation	No in	Method formation	-	N	ote
	Surface Val No inform availab	e tensio Ilue nation ble	n: °C No information	No	oncentra informa	ation	No in	Method formation	-	N	ote
Transpo	Surface Val No inform availab	nation ble	n: °C No information available	No	oncentra informa ailable	ation	No in availa	Method formation		N	ote
Transpo Soil-Wa	Surface Val No inform availab Adsorp	nation ble ption / c	n: °C No information available desorption Coefficient	No ava	oncentra informa ailable	ation	No in availa	Method formation able	No info		
	Surface Val No inform availab Adsorp ort	re tensionaliue reption / c A/E Hen	n: °C No information available desorption Coefficient ry's constant	No ava	log lo ir vailable	ation ation	No in availa	Method formation able Evaporation rate	No info avai	//ethod rmation	Note



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	No inforr	nation available						
12.6. Other adverse effects								
	No inforr	nation available						
SECTIO	N 13. Disp	oosal consideration	ons					
13.1.	Waste	treatment method	S					
13.1.1.	Produc	t/Packaging dispo	sal:					
	Protect	ion. Do not dispos ors authorized by	the legal person authorized se of the product's remains in the ministry in charge. Do	to the sewage syste	m. Submit the re	mains to th		
13.1.2.	Waste	codes/waste desig	nations according to Law:					
		an Waste Code: 08	3					
These codes are assigned based upon the most common uses for this ma contaminants resulting from actual use. Waste producers need to assess the generating the waste and its contaminants in order to assign the proper waste								
	contam	inants resulting fr	om actual use. Waste produc	ers need to assess t	the actual proces	s used whe		
	contam genera	inants resulting fr	rom actual use. Waste produc I its contaminants in order to	ers need to assess t	the actual proces	s used whe		
13.1.3.	contam genera Waste	inants resulting fr ting the waste and codes/waste desig	om actual use. Waste produc	ers need to assess t assign the proper w	the actual proces aste disposal cod	s used whe		

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 or 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:

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SECTION 14. Transport information



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Product code:	BCN-X**	Date of compilation:	15 Feb 2019	Version:	5

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

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			

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



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

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

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.	16.4. 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 exposure may cause skin dryness or cracking.		
16.6.	Trai	ning advice:	-		
16.7.	Further information:		the product) We are not res	roduct code marks different volumes (different packaging of sponsible for consequences in case of failure to comply with or use or improper use of the product described in this or data sheet.	

ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trade name:	BIOFIX				
Product code:	BF-X**	Date of compilation:	23 May 2019	Version:	3

SECTI	ON 1: Identification of the subst	tance/mixture a	nd of the company/undertaking	
1.1.	Product identifier			
	Trade name:	BIOFIX		
	Chemical name:	-		
	Catalogue number:	BF-X**		
1.2.	Relevant identified uses of the	substance or mix	ture and uses advised against	
	Uses:	Methyl alcoho	ol-based fixative for cryostat sections.	
	Uses advised against:	Only the iden	tified 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 24099	97	
	Telefax:	+385 1 2404039		
	e-mail of competent person:	msds@biognost.hr		
	National contact:			
1.4.	Emergency telephone numbers			
	National Protection and Rescue	e Directorate:	112	
	Medical information:		+385 1 2348 342	
	Other information:		-	

SECTIO	ON 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regulation (EC) No	1272/2008 (CLP)				
	Hazard class and category code: Hazard statement*:					
	Flam. liq. 2	H225				
	Acute Tox. 3	H301				
	Acute Tox. 3	H311				
	Skin Irr. 2	H315				
	Eye Irr. 2	H319				
	Acute Tox. 3	H331				
	Muta 2	H341				
	STOT SE 1	H370				
2.1.2.	Additional information					
	-					
* For fu	ull text of Hazard- and EU Hazard-statements: se	e SECTION 16				



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Trade name:	BIOFIX				
Product code:	BF-X**	Date of compilation:	23 May 2019	Version:	3

2.2.	Label elements	
	Product identification:	BIOFIX
	Identification number:	-
	Authorisation number:	
	Hazard pictograms:	GHS02 GHS06 GHS07 GHS08
	Signal word:	Danger
	Hazard statements:	 H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H319 Causes serious eye irritation. H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. H341 Suspected of causing genetic defects. H370 Causes damage to organs by inhaling, by skin contact and by swallowing.
	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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	

SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			



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Trade name:	BIOFIX				
Product code:	BF-X**	Date of compilation:	23 May 2019	Version:	3

67-56-1/ 200-659-6/ 603-001-00-X	-	≥ 50	methanol	Flam. liq. 2, H225 Acute tox. 3, H331 Acute tox. 3, H311 Acute tox. 3, H301 STOT-SE 1, H370
50-00-0/ 200-001-8/ 605-001-00-5	-	≤ 10	formaldehyde, 37%	Acute tox. 3; H301 Acute tox. 3; H311 Skin corr. 1B; H314 Skin sens. 1; H317 Acute tox. 3; H331 Muta. 2; H341 Carc. 1B; H350
64-19-7/ 200-580-7/ 607-002-00-6	_	≤ 5	acetic acid, 99%	Flam. Liq. 3; H226 Skin corr. 1A; H314

		DN 4. First aid measures			
4.1.	Description of first aid measures				
	General notes:	-			
	Following inhalation:	Carry the afflicted person out for fresh air, place them in half lying position and calm them down. If breathing stops, immediately apply artificial respiration. Rush the afflicted person to the hospital while keeping them in lateral recumbent position in order to keep the airways clear.			
	Following skin contact:	Remove contaminated clothing. Wash with plenty of water and soap for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			
	Following ingestion:	Rinse with water and expectorate. Make the afflicted person drink 1 - 2 glasses of water (200 - 400 ml). The afflicted person should drink one glass (100 ml) of 40% ethanol (adult dose). Place the afflicted person in the half lying position and rush them to hospital while constantly calming them down. If the afflicted person is vomiting, there may be risk of pulmonary aspiration.			
	Self-protection of the first aider	Avoid direct contact with the chemical; use appropriate protective equipment described in Section 8.			
4.2.	Most important symptoms and effects, both acute and delayed				
	Following inhalation:	Airways irritation and possible lung damage due to high levels of vapor concentration. Absorption may cause toxic effects.			
	Following skin contact:	Minimum level of irritation, defatting; prolonged exposure may cause absorption and greater possibility of delayed systemic effects.			
	Following eye contact:	Mild to moderate irritation due to vapor, conjunctivitis, later chemosis, lesser possibility of cornea damage. Visual impairments may occur later, after the absorbtion.			
	Following ingestion:	Stomach and bowel irritation, feeling unwell, vomiting, strong abdominal pain. Absorption may cause toxic effects.			



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Trade name:	BIOFIX				
Product code:	BF-X**	Date of compilation:	23 May 2019	Version:	3

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

SECTION	TION 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 byproducts of fire: 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, in order to prevent explosion.				
5.4.	Additional information				
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.				

SECTIO	ION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency pe	rsonnel			
	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. Do not breathe in vapor, ensure adequate ventilation and avoid contact with skin and eyes. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures: Mark th		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 precaut	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 materials	Methods and materials for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



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Trade name:	BIOFIX				
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6.3.2.	For cleaning:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly 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:	Do not use tools that may cause sparks.			
6.4.	Reference 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	ON 7. Handling and storage			
7.1.	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures for fire prevention:		Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.	
	Environmental precautions:		Secure proper ventilation.	
			Prevent spilling into the sewage system and waterways.	
	Other measures:		-	
7.1.2.	2. Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	well ve	n tightly closed and upright set containers in a entilated storage rooms, and away from sources t, sunlight, and other incompatible substances.	
	Packaging materials:	Manuf	facturer's original packaging.	
	Requirements for storage rooms and vessels: Keep away from food and drink. Keep the cotightly closed.			
	Advices for storage equipment: must		e storage must be made of hard material; floors st be resistant to chemicals. There must be no in that directly leads into sewage system. Secure per ventilation.	
	Further information on storage conditions: and do chemi		t place the unused material in the storage room o not use empty containers for storing other cals. Do not store with incompatible materials ection 10).	
7.3.	Specific end use(s)			
	Recommendations:	-		



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Trade name:		BIOFIX					
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Industrial sector specific solutions:	-
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:	-			i			
SECTION 8. Exposur	e contr	ols/persona	l protec	tion			
8.1. Control para	meters						
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values	
				ppm	mg/m³		
Methanol 67		67-56	5-1 200		260	(7.0 mg/	nol/mol of creatinine* /g of creatinine*), shift urinary excretion
Formaldehyde		50-00	-0	2	2.5	-	
Acetic acid		64-19	-7	10	25	-	
* For all results pertain consideration	ning cre	eatinine level	s, creatir	nine concentrati	on < 0.5 g/l and	d > 3.0 g/	I may not be taken into
Substance: -							
EC No: - CAS No:			-				
DNEL							
				Industrial			
Route of exposure:	Route exposi		Route o	of exposure:	Route of exposure:		Route of exposure:
Oral	-		-		-		-
Inhalation	1 mg/i (forma 260 mg (metha	ldehyde) g/m³	260 mg (metha		0.5 mg/m ³ (formaldehyd 260 mg/m ³ (methanol)	e)	9 mg/m ³ (formaldehyde) 260 mg/m ³ (methanol)
Dermal	-		40 mg/	kg (methanol)	0.037 mg/cm ² (formaldehyde)		240 mg/kg (formaldehyde) 40 mg/kg (methanol)
Critical physical parar	meters: s	solubility, fla	mmabilit	ty, corrosivity:		-	
				Consumer			
Route of exposure:	Route exposi		Route o	of exposure:	Route of expo	osure:	Route of exposure:
Oral	-		8 mg/kg (methanol)		-		4.1 mg/kg (formaldehyde) 8 mg/kg (methanol)
Inhalation	50 mg		50 mg/ (metha		0.1 mg/m ³ (formaldehyde) 50 mg/m ³ (methanol)		3.2 mg/m ³ (formaldehyde) 50 mg/m ³ (methanol)



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Trade name:		BIOFIX					
Product code: BF-X** Date of compilation:		23 May 2019	Version: 3				
			2				
Dermal	-	8 mg/kg (methanol	0.012 mg/cm ² (formaldehyde)	120 mg/kg (formaldehyde)			

Dermal	-	8 mg/kg (me	thanol)	(formaldehyde)	(formaldehyde) 8 mg/kg (methanol)
PNEC					
Environmental protect	ction target		PNEC		
Fresh water				l (formaldehyde) (methanol)	
Freshwater sediment	S		_	kg (formaldehyde) J/kg (methanol)	
Marine water		0.47 mg/l (formaldehyde) 15.4 mg/l (methanol)			
Marine sediments			2.44 mg/	kg (formaldehyde)	
Food chain			No inforr	mation available	
Microorganisms in sewage treatment			0.19 mg/l (formaldehyde) 100 mg/l (methanol)		
Soil (agricultural)			_	kg (formaldehyde) kg (methanol)	
Air			No inforr	mation available	

8.2.	Exposure controls	
8.2.1.	Appropriate engineering measures	
	Substance/mixture related measures to prevent exposure during 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 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:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.
8.2.2.	Personal protection equipment	
8.2.2.1.	Eye and face protection:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
8.2.2.2.	Skin protection:	



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	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN374. Full contact: Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min Splash contact: Gloves material: polychloroprene Glove thickness: 0.65 mm Time until perforation: >240 min
	Other skin protection:	Complete suit protecting against chemicals (EN 340) The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace and shoes that cover the entire foot.
8.2.2.3.	Respiratory protection:	Use mask that covers the entire face (EN 136). Recommended filter type: ABEK (EN 143). Use respirators and components tested according to and approved by the standard (EU).
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 prope	erties				
9.1.	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	colorless	No information available			
	Odour:	methanol	No information available			
	Odor threshold:	No information available	No information available			
	pH:	No information available	No information available			
	Melting point/freezing point:	No information available	No information available			
	Initial boiling point and boiling range:	65 °C	No information available			
	Flash point:	15 ℃	No information available			



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Trade name:		BIOFIX			
Product code:	BF-X**	Date of compilation:	23 May 2019	Version:	3

	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	lower: 5.5 % (V) (methanol) upper: 44 % (V) (methanol)	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
	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	DN 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:	With halogen elements, oxidizing substances, reducing agents, acids.
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.
10.5.	Incompatible materials:	Halogen elements, oxidizing substances, reducing agents, acids.
10.6.	Hazardous decomposition products:	Irritating vapors and gases.

SECTION 11. To	SECTION 11. Toxicological information							
11.1. Informat	on on toxicological effects							
Acute to	Acute toxicity:							
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results			
Oral:	No information available	rat	LD ₅₀	-	5630 mg/kg (methanol)			



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Trade name:				BIOFIX			
Product code:	BF-X**	Date of o	ompilation	n: 23 May	y 2019	Version: 3	
Dermal:	No information	on available	rabbit	LD ₅₀		17.100	mg/kg
Inhalation:	No information		rat	LC ₅₀	4 h		5 mg/l
Specific	target organ to	xicity - single	e exposure (STOT-SE):			
	S	pecific effect	:S	Targ	et organ	Note	
Oral:	No information	on available		No informat	ion available	-	
Dermal:	No information	on available		No informat	ion available	-	
Inhalation:	No information	on available		No informat	ion available	-	
			.				
Aspiration	on hazard:		Irritatin	g to respiratory s	system.		
Irritation	n and corrosion						
Irritation		uro timo	Chasias	Evaluation	Method	Note	
Skin	Expos	ure time	Species	Evaluation	i Metriod	note	
corrosion/irritation	on -		-	-	-	-	
Serious eye							
damage/irritation	า -		-	-	-	_	
Sensitiza							
Skin sensitization	: Does no	t cause sensi	tization.				
Respiratory	No infor	mation availa	able				
sensitization:							
Symptoi	ms related to th	e physical, cl	hemical and	toxicological cha	aracteristics:		
Oral exposure:	Stomach and cause toxic ef		ion, feeling	unwell, vomiting,	strong abdom	inal pain. Absorpt	on may
Dermal exposure:	Minimum leve				sure may cause	absorption and g	reater
Inhalation exposure:	Airways irritat Absorption m	•	_	amage due to hig	gh levels of vapo	or concentration.	
Eye exposure:	Mild to mode	rate irritation	n due to vap	oor, conjunctivitis nay occur later, a		s, lesser possibility ion.	of
Repeate	d dose toxicity	(subacute, su	ıbchronic, cl	hronic)			
	Dose	Exposu	re time	Species	Method	Evaluation	Note
Subacute oral	No informati available	ion No info availab	ormation i	No nformation available	No information available	No information available	_



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Trada nama:			DIOCIV		
Trade name:			BIOFIX		··•
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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 target	organ toxicity -	repeated exposure	(STOT_RE)
Specific farger	Oldan loxicity -	repeated exposure	: (3)(V) - KE).

	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, mutag	enicity, reproductive toxicity)
Carcinogenicity:	Current studies on mice and rats did not indicate carcinogenic effects.



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Trade name:			BIOFIX		
Product code:	BF-X**	Date of compilation:	23 May 2019	Version:	3

11.3.	General notes:					
	Other observations:	No information available				
	Classification observations:	No information available				
11.2.	Practical experiences:					
		required.				
	Summary of evaluation of the CMR properties; :	Current studies indicate that low methanol concentrations do not cause CMR effects. Further detailed tests are required.				
	Reproductive toxicity:	concentrations.				
	Germ cell mutagenicity :	No information available No toxicity on reproductive organs was determined in low				
	Mutagenicity in-vivo:	Current <i>in vivo</i> tests did not indicate mutagenic effects.				
	Genotoxicity:	No information available				
	Mutagenicity in-vitro:	Current <i>in vitro</i> tests did not indicate mutagenic effects.				

520.10	N 12. Ecolog	icai iiiioi	mation	
12.1.	Toxicity			

12.1. TOXICITY						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Lepomis macrochirus (Bluegill sunfish)	No information available	No information available	15.400 mg/l (methanol)
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	No information available	>10.0000 mg/l (methanol)
Algae/aquatic plants:	IC ₅₀	8 days	Pseudokirchn eriella subcapitata (green algae)	No information available	No information available	22.000 mg/l (methanol)
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-



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Version: 3
No nformation - vailable
nformation - vailable
-
Evaluation Note
formation available -
n Note
readily biodegradable (methanol)
tion Note ation bioaccumulation is not expected
n Note
n No information available



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Product code:	BF-X**	Date of compilation:	23 May 2019	Version:	3

	Value	Dose	Exposure time		Species	Me	thod	Eval	uation	Note
Chronic t	toxicity on fish	LC ₅₀	No information available		o formation vailable	No inform availa		No infor		-
	toxicity on a (Daphnia)	EC ₅₀	No information available		o formation vailable	No inforn availa		No infor		-
12.4.	Mobility in soil									
	Known or predicte	ed distribut	ion in enviro	nment	tal compartn	nents:				
	No information av	vailable								
	Surface tension:	;		,						
_	Value	,	°C		Concentrati	on		Metho	od	Note
	No information available	No i available	nformation	No ir	nformation a	vailable	No inf	ormation	available	-
	۸ ما م م سیدان می را ما م م	orption								
i_	Adsorption / desc A/D coed t Henry's c	fficient	log Ko	W	Evaporatio	n rate	Me	thod	No	te
Transpor	A/D coef Henry's c	fficient	log Ko No inform available		Evaporation No information available		Me No info	rmation	No ¹	te
Transpor Soil-Wate	A/D coer Henry's coer er No ir available	fficient onstant	No inform	ation	No informa	ation	No info	rmation e rmation		te
Transpor Soil-Wate Water-Ai Soil-Air	t A/D coef Henry's c r No ir available No ir available	fficient onstant nformation	No inform available	ation	No informa available	ation ation	No info	rmation e rmation e rmation		te
Transpor Soil-Wate Water-Ai Soil-Air	A/D coef Henry's coef er No ir available No ir available No ir	fficient onstant onstant onformation onformation	No inform available No inform available No inform available	ation	No informa available No informa available No informa	ation ation	No info available No info available No info	rmation e rmation e rmation		te
Transpor Soil-Water Water-Ai Soil-Air	t A/D coed Henry's coed available No ir available No ir available No ir available No ir available	fficient onstant nformation nformation d vPvB asse	No inform available No inform available No inform available ssment o(es) not me	ation ation ation	No informa available No informa available No informa available	ation ation ation PBT or v	No info available No info available available	rmation e rmation e rmation e	-	
Transpor Soil-Water Water-Ai Soil-Air	t A/D coer Henry's c rer No ir available No ir available No ir available Results of PBT and Substance(s) in the	fficient onstant nformation nformation of vPvB asse ne mixture d x III or a PB1	No inform available No inform available No inform available ssment o(es) not me	ation ation ation	No informa available No informa available No informa available	ation ation ation PBT or v	No info available No info available available	rmation e rmation e rmation e	-	
Transpor Soil-Water Water-Ai Soil-Air 12.5.	t A/D coed Henry's coed available No ir available No ir available No ir available Results of PBT and Substance(s) in the 1907/2006, Annex	fficient onstant onstant onformation offormation offormation d vPvB asserte mixture dex III or a PB1	No inform available No inform available No inform available ssment o(es) not me	ation ation ation	No informa available No informa available No informa available	ation ation ation PBT or v	No info available No info available available	rmation e rmation e rmation e	-	
Transpor Soil-Water Water-Ai Soil-Air 12.5.	t A/D coef Henry's c rer No ir available No ir available No ir available Results of PBT and Substance(s) in th 1907/2006, Annex	fficient onstant onstant onformation offormation offormation d vPvB asserte mixture de x III or a PBT ects vailable	No inform available No inform available No inform available ssment o(es) not me	ation ation ation	No informa available No informa available No informa available	ation ation ation PBT or v	No info available No info available available	rmation e rmation e rmation e	-	



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Trade name:	BIOFIX				
Product code:	BF-X**	Date of compilation:	23 May 2019	Version: 3	

13.1.1.	Product/Packaging disposa	ıl:			
		posed of according to the national and local rules and regulations. Do not te. Submit for disposal to the legal person authorized by the Ministry of Protection.			
13.1.2.	Waste codes/waste designations according to Law:				
	No information available				
13.1.3.	3.1.3. Waste codes/waste designations according to Low:				
	15 01 10*: packaging that c substances	contains residual hazardous substances or is contaminated with hazardous			
13.1.4.	Sewage disposal – relevant	information:			
	Waste must not be dispose	ed of into the sewage system.			
13.1.5.	Other disposal recommend	Other disposal recommendations:			
authorized by the ministry in charge. Do not dispose of the package		luct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. Submit stors authorized by the ministry in charge. Do not dispose of in places where			
13.1.6.	Relevant Community provisions:				
	Directive 2009/98/EC on waste and repealing certain directives.				
SECTION	N 14. Transport information				
Transporting/shipment by road		ad (ADR)			
UN num	ber:	1992			
UN prop	er shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)			
Transpor	t hazard class(es):	3 (6.1)			
Packing	group:	П			
Environn	nental hazards:	-			
Special precautions for user:		-			
	Transporting/shipment by rai	il (RID)			
UN number:		1992			
UN prop	er shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)			
Transpor	t hazard class(es):	3 (6.1)			
Packing	group:	П			
Environmental hazards:		-			



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Trade name:			BIOFIX		
Product code:	BF-X**	Date of compilation:	23 May 2019	Version: 3	3

Special precautions for user:	-	
Transporting/shipment by inland	waterways (ADN)	
UN number:	1992	
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)	
Transport hazard class(es):	3 (6.1)	
Packing group:	П	
Environmental hazards:	-	
Special precautions for user:	-	
Transporting/shipment by sea (IN	MDG)	
UN number:	1992	
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)	
Transport hazard class(es):	3 (6.1)	
Packing group:	П	
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:	1992	
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)	
Transport hazard class(es):	3 (6.1)	
Packing group:	П	
Environmental hazards:	-	
Special precautions for user:	-	
Further information:		

SECTIO	ECTION 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:	-	
0	Restrictions:	-	



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Trade name:			BIOFIX		
Product code:	BF-X**	Date of compilation:	23 May 2019	Version:	3

	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 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	

SECTION 16. Other information				
16.1.	Indication of changes:	-		
16.2.	Abbreviations and acronyms:	PBT Stable, bioaccumulative and toxic vPvB Strongly stable and strongly bioaccumulative. LD ₅₀ Lethal dose, 50% LC ₅₀ Lethal concentration, 50% STOT-SE Specific target organ toxicity – single exposure IMDG International Maritime Dangerous Goods IATA International Air Transport Association GHS Globally Harmonized System of Classification and Labelling of Chemicals		
16.3.	Key literature references and source of data:	-		
16.4. Classification and procedure 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)		
Classifi	ication	Classification procedure		
-		-		



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Trade name:	BIOFIX			<u> </u>	
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16.5.	Rele	evant H statements (num	ber and full text)
	H:	225 226 301+311+331 314 315 317 319 341 350 370	Highly flammable liquid and vapor. Flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer. Causes damage to organs if inhaled, if it comes into contact with skin, and if swallowed.
16.6.	Trai	ning 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.





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Trading name:	HISTANOL 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 alcohol			
	Catalogue number:	H100-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	identified uses are advised.	
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products an Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnos	t Ltd.	
	Address:		Medjugo	orska 59, Zagreb	
	Telephone number:		+385 1 2	2409997	
	Telefax.:		+385 1 2	2404039	
	e-mail of competent p	erson:	msds@b	oiognost.hr	
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection ar	nd Rescue Dire	cue Directorate: 112		
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ECTION 2. Hazards identification					
2.1	Classification of the substance	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:	HISTANOL 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 measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			



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

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



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Trading name:	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 Control p	arameters						
6.1 Control p	arameters			Occup	ational (evnosure limit	
Substanc	e	CA	S No		Occupational exposure limit values/short term values		Biological limit values
Substance			CASINO		m	mg/m³	biological infine values
Ethanol		64	-17-5	100		1900/-	-
					l	 	
Substance name:	_						
EC No:	-	CAS No) :	-			
DNEL							
Industrial							
Route of	Ac	ute		Acute		Chronic	Chronic
exposure:	effec	t local	effec	t systemic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		950 mg/m³ (ethanol)
Dermal	-		-		-		343 mg/kg (ethanol)
Critical physical pa	rameters:	solubility,	flamma	ability, corro	sivity:	_	
				Cons	umer		
Route of	А	cute		Acute		Chronic	Chronic
exposure:	effe	ct 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					
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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	rols			
8.2.1.	Appropriate engineering controls				
_	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 preven exposure:	t	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent expe	Secure proper workspace ventilation in order to keeposure: concentration levels in air below permitted levels. 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				
		The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min			
	Other skin protection:	footwe entire t impern	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		



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Trading name:	HISTANOL 100				
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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) acording to EN 14387) used when concentration levels exceed GV	
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	TION 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	Target organ					
	No informati	on available	No information a	vailable -					
Oral:			No information a						
Oral: Dermal:	No informati	on available	140 IIIIOIIIIatioii a						
	No informati		No information a						
Dermal:									
Dermal: Inhalation:		on available							



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

Product code: H100-X**		Re	Revision date:		13 May 2019 V		
	 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	-	
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	-	
	•		·÷·····				

No

information

available

No information

available

Chronic oral

No

information

available

No

information

available

No

information

available



								Pag	e 10 of 16
Trading name:					HISTA	NOL 100			
Product code:	ode: H100-X** Revision date: 13 May 2019				19	Ve	ersion:		
Chronic dermal		o information available			o formation vailable	No No informat available available		on	-
Chronic inhalation	No availa	information lable 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 information		-	
Subacute dermal						No information	n available	-	
Subacute inhalat	cute inhalation No information available					No information	n available	-	
Subchronic oral	ronic oral No information available					No information	No information available		
Subchronic derm	ubchronic dermal No information available					No information available		-	
Subchronic inhal	bchronic inhalation No information available					No information	n available	-	
Chronic oral	onic oral No information available					No information	n available	-	
Chronic dermal No information available				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 met.				
Mutage						able data, the cla			
		agenicity:			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			-
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						
Abiotio	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 information available No information available No information available available		No information	on	-				
Air	No ir	o information available No information available No information available		n	-				
Soil No info		nformation a	vailable		information ailable	No information - available		-	
i	•								
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*	*		Revi	sion da	ate:	13	May 20	19	Version:		
					i			i	-				
No info	ormation le	No availabl	inform	nation	No infavailab	ormatic ole	on	No inta	formation ble	1	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		Evaluation			Note			
No info	ormation le	No available	inform	ation	No info		n	No information available		on	-		
	Chronic ec	otoxicity											
	i .	-	_	Exp	osure								
	Value		Dose		ime	Spe	ecies	M	ethod	Evalı	uation	Note	e
Chronic	toxicity on	fish Lo	- -50	No infor	mation able	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	info	rmation lable	inform availa		-	
		•		•		•		•		•		•	
12.4	Mobility in	soil											
	Known or	predicted o	listributi	on in e	environm	nental c	ompar	tments	5:				
	No inform	ation availa	ble										
	Surface ter	nsion:											
	Value		°C	C	oncentra	ition		Met	thod			Note	
	No informatio available	No n inforn availa			informa iilable	tion	No in availa	format ble	tion	-			



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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	log Kow Evaporation rate Me		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 -							
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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Trading name:	HISTANOL 100					
Product code:	H100-X**	Revision date:	13 May 2019	Version:		

13.1.6. Relevant Community provision	s:
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:		NOL 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 environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorization and/or rest	rictions of use				
	Authorizations: -					
	Restrictions:	-				
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19				
	November 2008 on waste and repealing certain Directives Information according 1999/13/EC about limitation of emissions of volatile organic compounds (Viguideline)					
	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)	
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:	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 alcoho	ol	
	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 advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnomedical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purpose	
1.3	Details of the supplier	of the safety	data shee	t
	Supplier:		BioGnos	st Ltd.
	Address:		Medjugo	orska 59, Zagreb
	Telephone number:		+385 1 2	2409997
	Telefax.:		+385 1 2	2404039
	e-mail of competent person:		msds@b	piognost.hr
	National contact:		-	
1.4	Emergency telephone	number		
	National Protection a	nd Rescue Dire	ectorate:	112
	Medical information:			+385 1 2348 342
	Other information:		-	

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance	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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Trading name:	HISTANOL 95			
Product code:	H95-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	~ 95%	ethanol	Flam. Liq. 2; H225		

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 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 95		<u> </u>	
Product code:	H95-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 w contaminate the environment with e	vater spray. Collect contaminated fire fighting water separately. Do not extinguishing media.		

SECTIO	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. 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 95			
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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	See Section 8 for information on personal protection equipment.	
	See Section 13 for disposal information.		

SECTIO	DN 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 generatio	n:	Secure proper ventilation.
	Measures to protect the environment:	leasures to protect the environment:	
	Other measures:	measures:	
7.1.2.	Advice on general occupational hygiene:		
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.		
7.2	Conditions for safe storage, including any incompatibilities		
	Technical measures and storage conditions:	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 95			
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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:	-

8.1 Control p	arameters						
6.1 Control p	arameters			Occup	ational (evnosure limit	
Substance		CA	CAS No		Occupational exposure limit values/short term values ppm mg/m³		Biological limit values
							biological little values
Ethanol		64	-17-5	100		1900/-	-
					l	 	
Substance name:	_						
EC No:	-	CAS No) :	-			
DNEL	1	1	·				
				Indu	strial		
Route of	Ac	ute		Acute		Chronic	Chronic
exposure:	effec	t local	effec	t systemic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		950 mg/m³ (ethanol)
Dermal	-		-		-		343 mg/kg (ethanol)
Critical physical pa	rameters:	solubility,	flamma	ability, corro	sivity:	_	
				Cons	umer		
Route of	А	cute		Acute		Chronic	Chronic
exposure:	effe	ct 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 95					
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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			
	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 prever exposure:		Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent exp	oosure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment			
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.	
8.2.2.2.	Skin protection			
	Hand protection:	•	otective gloves have to satisfy the specification of tion (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	ION 9. Physical and chemical prope	rties	
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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Trading name:	HISTANOL 95				
Product code:	H95-X**	Revision date:	13 May 2019	Version:	

	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 Inform	nation on toxicolog	jical 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: - ra		rat (ethanol)	LC ₅₀	4 h	20.000 mg/l
C:		: -:	····- (CTOT CE):		
Specif		icity – single expos			N
; '	Sp	pecific effects	Target o		Note
Specif		pecific effects			Note
; '	Sp	pecific effects	Target o	available -	Note
Oral:	Sp No informati	pecific effects ion available ion available	Target o	available -	Note
Oral: Dermal:	Sp No informati No informati	pecific effects ion available ion available	No information a	available -	Note



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

Irritation	n and corr	osion					
	8	Exposur	e time	Species	Evaluation	Method	Note
Skin corrosion/irritation	on:		-		-	-	-
Serious eye damage/irritation	า -		-		-	-	-
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	gicai 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	



- v								rag	e 10 of 16	
Trading name:						ANOL 95				
Product code:	H9	15-X**		Revision date:		13 May 20	13 May 2019		Version:	
Chronic dermal	No availa	information able	intormation		o formation vailable	No No information available available		on	-	
Chronic inhalation	No availa	nformation ble No information 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 informa	ntion availa	ble		No information	n available	-		
Subacute derma		No informa	ition availa	ble		No information	n available	-		
Subacute inhalat	ion	No informa	ntion availa	ble		No information	n available	-		
Subchronic oral		No information available				No information	No information available			
Subchronic derm	nal	No information available				No information	n available	-		
Subchronic inhal	ation	tion No information available				No information	n available	-		
Chronic oral		No informa	ition availa	ble		No information	n available	-		
Chronic dermal		No informa	ition availa	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:			Based on available data, the classification criteria are not met.					
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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Trading name:		HISTANOL 95			
Product code:	H95-X**	Revision date:	13 May 2019	Version:	

SECTION 12. E	cologic	cal informat	tion						
12.1 Toxicity	у								
Acute (short-ter toxicity	rm)	Dose	Exposur time	e Spec	ies	Method	Eva	luation	Note
Fish		LC ₅₀	96 hours	No infor		No information available	No inforr availa	nation ble	-
Crustacea:		EC ₅₀	48 hours	No infor		No information available	No inforr availa	nation ble	-
Algae/aquatic p	olants	IC ₅₀	4 days	No infor		No information available	No inforr availa	nation ble	-
Other organism	ıs	-	-	-		-	-		-
Chronic (long-toxicity	erm)	Dose	Exposur time	e Spec	cies	Method	Eva	luation	Note
Fish		LC ₅₀	96 hours	No infor		No information available	No inforr availa	nation ble	-
Crustacea:		EC ₅₀	48 hours	No infor		No information available	No inforr availa	nation ble	-
Algae/aquatic p	lants	IC ₅₀	72 hours	No infor		No information available	No inforr availa	nation ble	-
Other organism	ıs	-	-	-		-	-		-
12.2 Persist	ence ai	nd degradab	oility						
Abiotic	degra	dation							
	De	gradation ha	alf-lives	Metho	od	Evaluatio	n		Note
Marine water	No ir	nformation a	vailable	No information available	tion	No informatio available	n	_	
Fresh water	No ir	nformation a	vailable	No informatavailable	_		-		
Air	No ir	nformation a	vailable	No information available No information		-			
Soil	No ir	nformation a	vailable	No informa	tion	No informatio available	n	-	
Biodeg									
% Degradation	on	Time (c	lays)	Metho	od	Evaluatio	n		Note



											Pag	ge 12 of 16)
Tradin	g name:						HISTA	NOL 9	95				
Produc	ct code:	H95-X**			Revi	sion da	ate:	13	May 20	19	٧	ersion:	
									-				
No info	ormation le	No availab			No info	ormatio ble			1	No info	ormation le		
		:			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		١	Method	I		Evaluati	on		Note	
No info	ormation	No information		ation	tion 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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Trading name:		HISTA	NOL 95	
Product code:	H95-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	-			
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 disposed of into the sewage 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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Trading name:		HISTAN	OL 95	
Product code:	H95-X**	Revision date:	13 May 2019	Version:

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

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 rest	trictions 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	

SECTION 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)		
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

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Trading name:	HEMATOXYLIN G2				
Product code:	HEMG2-OT-X**	Revision date:	15 May 2019	Version:	5

SECTI	ON 1 IDENTIFICATION	OF THE SUB	STANCE/MI)	CTURE AND OF THE COMPANY/UNDERTAKING			
1.1.	Product identifier	,					
	Trading name:	HEMATOX	YLIN G2				
	Chemical name:	-					
	Catalogue number:	HEMG2-O	HEMG2-OT-X**				
1.2.	Relevant identified use	es of the sub	stance or mix	ture and uses advised against			
	Uses:		Hematoxyl	in according to Gill for nuclear staining.			
	Uses advised against:		Only the ic	lentified uses are advised.			
	Reason why uses advis	sed against:	ct is intended for use only as an <i>in vitro</i> diagnostic evice, registered at the Agency for Medicinal Products and evices and there is no reason to use it for other purposes				
1.3.	Details of the supplier	of the safety	data sheet				
	Supplier:	В	ioGnost Ltd.				
	Address:	٨	Medjugorska 59, Zagreb				
	Telephone number:	Telephone number: +3		-385 1 2409997			
	Fax no.:	Fax no.: +3		+385 1 2404039			
	e-mail of competent p	erson: <u>n</u>	nsds@biogno	ost.hr			
	National contact:	-					
1.4.	Emergency telephone	Emergency telephone number					
	National Protection ar	nd Rescue Dir	rectorate:	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*:		
	Acute Tox. 4		H302			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16			
2.2.	Classification according to EC Dire	ective Nr. 1272/	/2008 CLP)			
	Product identification: HEMATOXYLIN G2					
	Identification number:	-				
	Authorization no.:	-				

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Trading name:	HEMATOXYLIN G2					
Product code:	HEMG2-OT-X**	Revision date:	15 May 2019	Version:	5	

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statements:	H302 Harmful if swallowed.
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
	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	≥ 25	ethylene glycol	Acute Tox. 4, H302				

SECTIO	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 aider:	Treat symptomatically.			

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Trading name:	HEMATOXYLIN G2					
Product code:	HEMG2-OT-X**	Revision date:	15 May 2019	Version:	5	

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. Longterm 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		
	-		

SECTION 5 FIREFIGHTING MEASURES			
5.1.	Extinguishing media		
	Suitable extinguishing media:	e - water spray, dry powder, CO ₂ e - 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 inform	nation 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).		

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Trading name:	HEMATOXYLIN G2				
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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.
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	
	-	

SECTION 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 generatio	n: Secure proper ventilation.		
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.		
	Other measures:	-		
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Thoroughly 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, and away from sources of heat, sunlight, and other incompatible substances.		
	Packaging materials:	Manufacturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.		

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Trading name:	HEMATOXYLIN G2				
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	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

				TRULS/PER	SUNAL	PROTECTION				
8.1.	Cont	rol par	ameters	l					I	
	Substance CAS No			Occupational exposure limit values/short term values			ological limit values			
				ppm	n	ng/m³				
Ethylene glycol 107-			107-2	1-1	20/40		52/104	No infor	mation available	
Substa										
name:	nce	-								
EC No:		-		CAS No:	-					
DNEL										
						Industrial				
Route	of		Acute		Acute			Chronic		Chronic
exposi	ure:		effe	ect local	effe	ect systemic		effect local		effect systemic
Oral			-		-		-	-		-
Inhalat	ion		-		-			mg/ kg nylene glyd	col)	-
Derma	I		-		-		-	, ,,	<u> </u>	106 mg/kg (ethylene glycol)
Critical	nhysid	al nara	meters: s	solubility fla	l mmahili	ty, corrosivity:		_		(ethylene glycol)
Circical	priyate	.ai para	11100013. 3	orability, na		Consumer				
Route	of			Acute		Acute		Chron	ic	Chronic
exposi				ect local	effe	ect systemic		effect lo		effect systemic
Oral			-		-		-			-
Inhalat	ion		-		-	7 mg/kg (ethylene glycol)				-
Derma	I		-		-	<u> </u>		53 mg/kg (ethylene glycol)		
PNEC										
Enviror	nmenta	al prote	ction tar	get		PNEC				

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Fresh water

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10 mg/l (ethylene glycol)

	Structural measures to prevent exposure:		Use mo	nodern equipment.			
	Substance/mixture relate measures to prevent expo		See Sec	ection 6			
8.2.3.	Environmental exposure						
8.2.2.4.	Thermal hazards:	No inf	ormation	available			
8.2.2.3.	Respiratory protection:	filter for organic		ace mask (EN 136) or half mask (EN 140) equipped with a c vapors, type "A" (boiling point >65°C) acording to EN ten concentration levels exceed GVI.			
	Other skin protection:			clothing made of natural fibers (such as cotton) with long 34), and shoes that cover the entire foot (EN 10335).			
	Hand protection:	standard EN 37- Glove m Glove th		es must be according to the EU Directive 2016/425/EEC and 4. naterial: nitrile rubber hickness: ≥0.50 mm hrough time: >480 min			
8.2.2.2.	Skin protection						
8.2.2.1.	Eye and face protection:		Safety o	plasses that stick to face (preventing splashing) (EN 166) or			
8.2.2.	Personal protection equip	oment					
	Technical measures to preexposure:	event		proper workspace ventilation in order to keep atration levels in air below permitted levels.			
	Structural measures to prevent exposure: Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.				
			No info	rmation available			
	Substance/mixture relate measures to prevent expo			product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.			
8.2.1.	Engineering measures						
8.2.	Exposure controls						
Air				No information available			
Soil (agric	cultural)			1.53 mg/kg (ethylene glycol)			
Microorga	anisms in sewage treatment			199.5 mg/l (ethylene glycol)			
Food chai	n			No information available			
Marine se				3.7 mh/kg (ethylene glycol)			
Marine w				1 mg/l (ethylene glycol)			
Freshwater sediments				37 mg/kg (ethylene glycol)			

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Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

1.	Information on basic physical and chen	nical properties	
		Value	Method
	Physical state:	liquid	No information available
	Color:	red	No information available
	Odor:	very mild vinegar odour	No information available
	Odor threshold:	No information available	No information available
	pH:	2.0 - 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
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available

SECTIO	N 10 STABILITY AND REACTIVITY	
10.1.	Reactivity:	See subsections 10.3 through 10.5.

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Trading name:	HEMATOXYLIN G2					
Product code:	HEMG2-OT-X**	Revision date:	15 May 2019	Version:	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 TOX	ICOLOGICAL INFORM	ATION					
11.1. Informat	ion on toxicological effe	ects					
Acute to	xicity:						
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	₅₀ /LC ₅₀ or Exposu		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 1	arget organ toxicity – s	ingle exposure (S	ΓΟΤ SE):				
		fic effects	Target organ			Note	
Oral exposure:	No information	No information available		No information available			
Dermal exposure:	No information	No information available		on available	-		
Inhalation exposu	re: No information	No information available		No information available -			
Respirato	ory irritation:	No inform	nation available				
-							
Irritation	and corrosion						
	Exposure time	Species	Evaluation	Method		Note	
Skin irritation:	-	rabbit	-	-	Slight irritation (ethylene glycol)		
Eye irritation:	24 h	rabbit	-			Slight irritation (ethylene glycol)	
Sensitiza							

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Trading name:		HEMAT				
Product code:	HEMG2-OT-X**	Revision date:	15 May 2019	Version:	5	

Inhalation exposure:	N	o information	available				
Sympto	ms rel	ated to the ph	nysical, chemic	al and toxicolog	ical characteristi	CS	
Oral exposure: 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.							
Dermal exposure	2:	_		exposure, resor and tingling se	ption effects are nsation of skin.	not likely. Long	-term exposure
Inhalation expos	ure:		-	s of vapors in inc che and nausea.	adequately venti	lated perimeter	may cause
Eye exposure:		Direct eye co sensation.	ntact may cau	se slight to moc	lerate irritation, I	acrimation and	burning
Repeate	ed dos	e toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral		information lable	No information available	No information available	No information available	No information available	-
Subacute dermal		information lable	No information available	No information available	No information available	No information available	-
Subacute inhalation		information lable	No information available	No information available	No information available	No information available	-
Subchronic oral		information lable	No information available	No information available	No information available	No information available	-
Subchronic dermal		information lable	No information available	No information available	No information available	No information available	-
Subchronic inhalation		information lable	No information available	No information available	No information available	No information available	-
Chronic oral		information lable	No information available	No information available	No information available	No information available	-
Chronic dermal		information lable	No information available	No information available	No information available	No information available	-

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Trading	g name:			HEMATOXYLIN G2								
Produc	t code:	НЕ	MG2-OT-X*	* Revision date		te:	15 May 2019	Version	•	5		
Chronic inhalatio	Chronic No information inhalation available		No information available	nformation information		No information available	No information available		-			
	Specific	target	organ toxicit	y – repeated	exposure (S	тот	RE):					
			S	pecific effect	İS		Target orga	ın		Note		
Subacut	e oral		No informa	tion availabl	е	No	information avai	lable	_			
Subacut	e dermal		No informa	tion availabl	е	No	information avai	lable	-			
Subacut	e inhalati	on	No informa	tion availabl	е	No	information avai	lable	-			
Subchro	nic oral		No informa	tion availabl	е	No	information avai	lable	-			
Subchronic dermal No information			tion availabl	available No information avai		lable	-					
Subchro	nic inhala	ition	No informa	tion availabl	e	No	information avai	lable	-			
Chronic	oral		No informa	tion availabl	e	No	information avai	lable	-			
Chronic	dermal		No informa	tion availabl	n available No information available		lable	-				
Chronic	inhalatio	า	No informa	tion availabl	е	No	information avai	lable	-			
	CMR effe	ects (c	arcinogenicity	y, mutagenio	ity, reprodu	ctive	toxicity)					
	Carcinog		-	Current	Current studies on test animals did not indicate carcinogenic effects.							
	Mutager		n-vitro:		Current in vitro tests did not indicate mutagenic effects.					S.		
	Genotox				rmation ava							
	Mutager						id not indicate n	nutagenic e	effects	5.		
	Germ ce	ll mut	agenicity:		rmation ava							
	Reprodu	ctive 1	toxicity:	No tox organs.	•	produ	uctive organs w	as determi	ined	in reproductive		
	Summar	y of ev	valuation of tl	ne CMR prop	perties: -							
11.2.	Practical	exper	riences:									
	Remarks	releva	ant for classifi	cation:	No inforn	natio	n available					
	Other re	marks	•		No inforn	natio	n available					

SECTION 12 ECOLOGICAL INFORMATION:	
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General notes:

12.1. Toxicity

11.3.

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Trading name:	HEMATOXYLIN G2							
Product code:	HEMG2-OT-X**	Revision date:	15 May 2019	Version:	5			

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	-
	İ	1	†	<u></u>		

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	-

Biodegra	adation			
% Degradation	Time (days)	Method	Evaluation	Note
No information available	No information available	No information available	No information available	No information available

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Trading name:	HEMATOXYLIN G2							
Product code:	HEMG2-OT-X**	Revision date:	15 May 2019	Version:	5			

12.3.	Bioac	cumulati	ive potenti	al								
	Partit	ion coef	ficient: n-o	ctanol/wa	ter (log K	low):						
Valu	ıe	Conce	ntration	рН	°C	М	ethod		Evalu	ation		Note
_		No int available	formation	-	-	No info	ormatior le		inform ailable	nation	-	
				(D.C.)								
		ncentrat	ion factor									
	/alue		Spec			Method			valuati			Note
No info availab	ormatio le		o ir railable	nformation	n No inf availal	formation ble	on	No in availa	formati ble	on	No inforr available	mation
	Chro	nic ecoto	xicity									
	Valu	ıe	Do	se E	Exposure time		ecies	Met	hod	Eva	lluation	Note
Chronic	c toxicit	ty on fish	LC ₅₀		ormation ailable		information information No		No infavailat	information - ilable		
	c toxicit ea (<i>Daț</i>	-	EC ₅₀	1	ormation ailable	No infor avail	mation able	No inforn availa		No infavailat	ormation ble	-
12.4.	Mobi	lity in so	il									
	Know	n or pre	dicted dist	ribution ir	n environr	mental (compart	ments:				
			n available									
	Surfa	ce tensic	on:									
	-	alue	°C		Concentr	ation		Meth	od		N	ote
	No	mation	No informati available	on N	lo inform vailable		No inf	nformation				
	Adso	rntion /	desorption									
Transp		A/D	coefficient /'s constan		log Kow	E	vaporati	on rate		Method		Note

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Trading r	name:		HEMATOXYLIN G2							
Product code: HEMG2-OT-X**			Revisio	n date:	15 May	2019	Version:	5		
Soil-water No informatio		information able	No information available	No information available		No information available		-		
Water-air	No availa	information able	No information available	No info	ormation le	No inf availal	ormation ble	-		
Soil-air	No availa	information able	No information available	No info availab	rmation le	No inf availal	ormation ole	-		
		PBT and vPvB asses	ssment							
12.6. C	Other adv	erse effects								
	lo inform	ation available								
SECTION	13 DISPO	OSAL CONSIDERA	TIONS							
13.1.	Waste tr	reatment methods								
1011	D 1 .	/D ' '	1							
13.1.1.		/Packaging disposa for disposal to the loon.		rized by	the Ministr	y of Env	rironmental a	nd Nature		
13.1.2.	Waste co	odes/waste designa	ations according to	Law:						
	No infor	mation available								
13.1.3.	Waste tr	eatment – relevant	information:							
	No infor	mation available								
13.1.4.	Sewage	disposal – relevant	information:							
	Waste m	nust not be dispose	d of into the sewa	ge syster	m.					
13.1.5.	Other di	sposal recommend	ations:							
	Do not o	dispose of the prod ed by the ministry i aging to the collec	uct's remains into n charge. Do not o	dispose c	of the pack	aging in	to the sewag	e system. Submi		

SECTION 14 TRANSPORT INFORMATION

Relevant Community provisions:

13.1.6.



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Trading name:		HEMATOXYLIN G2					
Product code:	HEMG2-OT-X**	Revision date:	15 May 2019	Version:	5		

Transporting/shipment by i	road (ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by I	rail (RID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport ((ADN)
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 s	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 a	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:	-

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				9	
Trading name:		OXYLIN G2			
Product code:	HEMG2-OT-X**	Revision date:	15 May 2019	Version:	5

Further information: The product is not subject to classification.
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5.1.	Safety, health and environmental 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-					
	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					
5.2.	Chemical safety assessme	ent					
	None						

SECTIO	SECTION 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		

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Trading name:		OXYLIN G2			
Product code:	HEMG2-OT-X**	Revision date:	15 May 2019	Version:	5

16.3.	Key literature references and source of data:	-
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classifi	cation	Classification procedure
-		-
16.5.	Relevant H statements (num	ber and full text)
	H: H302	Harmful if swallowed.
16.6.	Training advice:	-
		** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX:

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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Trading name:		EOSIN Y 2% ALC	ОНОЦС	<u> </u>	
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

SECTI	ON 1: Identification of t	the substance	e/mixture	e and of the company/undertaking	
1.1	Product identifier	ıct identifier			
	Trading name:	EOSIN Y 2%	6 ALCOHO	DLIC	
	Chemical name:	-			
	Catalogue number:	EOYA-20-O	T-X**		
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against	
	Uses:		Reagent	for cytoplasm counterstaining.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advis	sed against:	medical	The product is intended for use only as an <i>in vitro</i> diagnostic nedical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.	
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:	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	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	EOSIN Y 2% ALC	COHOLIC			
	Identification number:	-				
	Authorization number:	-				



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Trading name:		EOSIN Y 2% ALC	ОНОЦС	<u> </u>	
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

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

SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- xxxx	≥ 50%	ethanol	Flam. Liq. 2; H225			
64-19-7/ 200-580-7/ 607-002-00-6	-	< 0.5%	acetic acid	Flam. Liq. 3; H226 Skin Corr. 1A; H314			

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.			



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Trading name:		EOSIN Y 2% ALC	ОНОЦС		
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the 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 eff	ects, 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 media	cal attention and special treatment needed

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

SECTIO	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:		EOSIN Y 2% ALC	OHOLIC		
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

	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:				
	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, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for con	tainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand 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 See Section 8 for information See Section 13 for disposal in	on personal protection equipment.			

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 generation:	Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				
	Other measures: Protect against electrostatic charges.					
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2	Conditions for safe storage, including any incompatibilit	ies				



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Trading name:	EOSIN Y 2% ALCOHOLIC				
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

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

8.1 Control para Substance Ethanol	imeters		S No	-				
			S No	_				
Ethanol						Occupational exposure limit values/short term values		Biological limit values
Ethanol		C 4			ppm		mg/m³	
		64-	17-5		100	0/-	1900/-	-
Substance name: -								
EC No:	-	CAS No:	:	_				
DNEL								
Industrial								
Route of exposure:	Acu effect			Acuto				Chronic effect systemic
Oral -			-		-			-
Inhalation -	-		-		-			950 mg/m³ (ethanol)
Dermal -			-			-		343 mg/kg (ethanol)
Critical physical parar	neters: s	olubility,	flamm	ability	y, corros	sivity:	-	
					Consu	umer		
Route of exposure:		cute t local	effe	Acut ct sys	ce Chronic effect local			Chronic effect systemic
Oral	-		-			-		-



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Trading name:	EOSIN Y 2% ALCOHOLIC				
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

Product	code:	EOYA-20-01-X*	* Date	of compilation:	20 May 2019	Version:	1
Inhalation	n .	-	-	-	114 mg	114 mg/m³ (ethanol)	
Dermal		-	-	-	206 mg	g/kg (ethanol)	
PNEC							
Environm	nental pro	tection target		PNEC			
Fresh wat	ter			0.96 mg/l (ethan	ol)		
Freshwate	er sedime	ents		3.6 mg/kg (ethar	iol)		
Marine w	ater			0.79 mg/l (ethan	ol)		
Marine se	ediments			no information available			
Food cha	iin			no information available			
Microorg	anisms in	sewage treatment		no information a	vailable		
Soil (agric	cultural)			0.63 mg/kg (etha	inol)		
Air				no information available			
				1			
8.2	Expos	ure controls					
8.2.1.	Appropriate engineering controls						
		ance/mixture related nt exposure during		•	in well ventilated roo ment. Do not eat, drii	•	
	Structural measures to prevent			In accordance with Section 7			

8.2.1.	Appropriate engineering controls			
	Substance/mixture related measures prevent exposure during identified us	nrotective equipment 1)o not eat, drink or smoke in the		
	Structural measures to prevent exposure:	In accordance with Section 7.		
	Organisational measures to prevent exposure:	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposu	Secure proper workspace ventilation in order to keep ure: 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: lev	rfety glasses that stick to face (EN 166) or visor in case of lower vels of concentration in air; protective gas mask that covers the attire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection			
		ne protective gloves have to satisfy the specification of egulation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm		
		Time until perforation: > 480 min		



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Trading name:	EOSIN Y 2% ALCOHOLIC				
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

	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 available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

1	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	No information available		
	Colour:	orange to pink-red	No information available		
	Odour:	ethanol like	No information available		
	Odor threshold:	No information available	No information available		
	pH:	5.4 -5.7	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		
	Vapour density:	No information available	No information available		
	Relative density:	No information available	No information available		
	Bulk density:	No information available	No information available		



Dermal:

Inhalation:

No information available

No information available

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

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Trading name:	EOSIN Y 2% ALCOHOLIC				
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

	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
	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		
	-		

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

SECTION 11. Toxicological information								
11.1 Information on toxicological effects								
	Acute toxicity:							
Route of exposure: Dose LD_{50}/LC_{50} or LD_{50}/LC_{50} Exposure time Re					me Results			
Oral:		-	rat (ethanol)	LD ₅₀	-	7.060 mg/kg		
Derma	l:	-	_	-	_	_		
Inhalat	ion:	-	rat (ethanol)	LC ₅₀	4 h	20.000 mg/l		
						·		
Specific target organ toxicity – single exposure (STOT SE):								
Specific effects			Target o	Target organ No				
Oral:		No information available		No information a	No information available -			

No information available

No information available



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Trading name:		EOSIN Y 2% ALC	OHOLIC				
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1		

Aspiration hazard:			N	No information available.			
Irritation	n and	corrosion					
		Exposur	e time	Species	Evaluation	Method	Note
Skin corrosion/irritation	on:	-	-	'	-	-	-
Serious eye damage/irritation	า	-	-		-	-	-
Sensitiza	ation						
Skin sensitization	1:	No inf	ormation avail	able.			
Respiratory sensi	itizatio	on: No inf	ormation avail	able.			
Sympto	ms re	lated to the pl	nysical, chemic	al and toxicolog	gical characteri	stics	
Oral exposure:		No informati			9.00. 0.10.000		
Dermal exposure		No informati					
Inhalation exposi		No informati					
Eye exposure:		No informati	on available.				
		i					
Repeate	ed dos	se toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluatio	n Note
Subacute oral		information lable	No information available	No information available	No information available	No informati available	on -
Subacute dermal		information lable	No information available	No information available	No information available	No informati available	on -
Subacute inhalation		information lable	No information available	No information available	No information available	No informati available	on -
Subchronic oral		information lable	No information available	No information available	No information available	No informati available	on -
Subchronic dermal		information lable	No information available	No information available	No information available	No informati available	on -
Subchronic inhalation		information lable	No information available	No information available	No information available	No informati available	on -



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		OHOLIC	EOSIN Y 2% ALC		Trading name:
1	Version:	20 May 2019	Date of compilation:	EOYA-20-OT-X**	Product code:
-	Version:	20 May 2019	Date of compilation:	EOYA-20-OT-X**	Product code:

Chronic oral	No availa	information able	No information available	No information available	No information available	No informati available	on	_
Chronic dermal	No availa	information able	No information available	No information available	No information available	No informati available	on	-
Chronic inhalation	No information available No available			No information available	No information available	No informati available	on	-
Specific	target	organ toxicit	v – repeated e	xposure (STOT	RE)·			
	g	9	Specific effec	-	Target o	rgan		Note
Subacute oral	•				No information		-	
Subacute derma					No information	n available	-	
Subacute inhalat	tion	No informa	tion available		No information	n available	-	
Subchronic oral		No informa	tion available		No information	n available	-	
Subchronic derm	nal	No informa	ition available		No information	n available	-	
Subchronic inhal	lation	No informa	ition available		No information	n available	-	
Chronic oral		No informa	ition available		No information	n available	-	
Chronic dermal		No informa	tion available		No information	n available	-	
Chronic inhalation	on	No informa	ition available		No information	n available	-	
CMR ef	fects (ca	arcinogenicit	y; mutagenicity	; reproductive	toxicity)			
Carcino	genicity	y :		Based on avail	able data, the cla	ssification c	riteri	a are not met.
Mutage	enicity <i>ii</i>	n vitro:		Based on available data, the classification criteria are not met.				
Genoto	xicity:			Based on avail	able data, the cla	ssification o	riteria	a are not met.
Mutage	nicity <i>ii</i>	n vivo:		Based on avail	able data, the cla	ssification o	riteria	a are not met.
Germ ce	ell muta	agenicity:		Based on avail	able data, the cla	ssification c	riteri	a are not met.
Reprod	uctive t	oxicity:		Based on avail	able data, the cla	ssification o	riteri	a are not met.
Summa propert	,	evaluation	of the CN	1R Based on met.	available data, t	he classifica	ation	criteria are not
11.2 Practica	ıl experi	iences:						
		bservations:		No inform	ation available			
Other o					ation available			
11.2	l notes							
11.3 General	notes:							



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Trading name:		EOSIN Y 2% ALC	ОНОЦС		
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

SECTION 12. E	cologi	cal informat	ion				
12.1 Toxicit	:У						
Acute (short-te toxicity	rm)	Dose	Exposure time	e Species	Method	Evaluation	Note
Fish		LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic p	olants	IC ₅₀	4 days	No information available	No information available	No information available	-
Other organism	าร	-	-	-	-	-	-
Chronic (long-t	erm)	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 μ	olants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organism	าร	-	-	-	-	-	-
		nd degradab	ility				
Abioti		dation					
	De	gradation ha	ilt-lives	Method	Evaluation		Note
Marine water No informa		nformation a	vailable	No information available	No informatio available	on -	
Fresh water	No ir	nformation a	vailable	No information available	No informatio available	on -	
Air	No ir	nformation a	vailable	No information available	No information	on -	
Soil	No ir	nformation a	vailable	No information available	No information available		



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Trading name:		EOSIN Y 2% ALC	ОНОЦС		
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

	Biodegrac	lation									
% Deg	radation	Tin	ne (days	s)	N	1ethod		Evaluatio	n		Note
No information available		No available						No information available		No information available	
		ulative pote									
i_		ater partition									
Value		ncentration		Н	°C	Method		Evalu	ation		Note
-	-		-		-	_		_		-	
							1 1 2 3 3				
	Bioconcer	tration fact	or (BCF))							
	Value Species		·	١	Method		Evaluati	on		Note	
No infor		No	inform	mation No info		ormation	No informati		on	_	
available		available			availab	le	ava	ilable		_	
	Chronic ed	otoxicity									
				Exp	osure						
	Value		Dose		ime	Species	IV	lethod	Eval	uation	Note
Clari i		£:_L	_	No	<i>!</i>	No	No		No	4:	
Cnronic 1	toxicity on	TISN LC	- 50	availa	mation able	information available		rmation ilable	availa	nation ble	-
Chronie	haviditus = =			No		No	No		No		
	toxicity on a (<i>Daphnia</i>	: ⊢(C ₅₀		mation	information		rmation	1	nation	-
				availa	anie	available	avai	ilable	availa	nie	
12.4	Mobility in	n soil									
			listribut	ion in e	nvironm	ental compar	tment	s:			
		ation availa									
	Surface te	nsion:									



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Trading	g name	e:		EC	SII	N Y 2% ALCO	HOLIC		<u> </u>	
Produc	t code	e: E0	OYA-20-OT-X*	* Date of	со	mpilation:	20 May 20	19	Version:	1
	No No information available available			No information available	1	No informatio	n	-		
	Adsor	rption / o	desorption							
Transpo	ort		coefficient y's constant	log Kow	E۱	aporation rate	Meth	iod	Note	
Soil-wa	tor :	No available	information	No information available		o information vailable	No inform	nation	-	
Water-a	air	No available	information	No information available		o information railable	No inform	nation	-	
Soil-air		No available	information	No information available		o information vailable	No inform	nation	-	
			·						i	
12.5	Resul	ts of PBT	Γ and vPvB asses	sment						
	Not a	pplicable	<u>e.</u>							
12.6		adverse								
	No fu	irther rel	evant information	on available.						
CECTIO	NI 12 I	Diamanal	l aanaidanatian	_						
13.1			l considerations	<u> </u>						
15.1	vva	ste treati	ment methods							
13.1.1.	Pro	duct/Pac	ckaging disposal							
13.1.1.	Sub		3 3 .	egal person autho	rize	d by the Minist	ry of Enviror	nmental	and Nature	
	•									
13.1.2.	Was	ste code	s/waste designa	tions according to	La	w:				
		01 10*: P stances	'ackaging that co	ontains residual ha	azar	dous substance	es or is conta	aminate	d with hazardo	us
					_					
13.1.3.	Was	ste treati	ment – relevant	information:						
	No	informat	tion available							

Sewage disposal – relevant information:

Waste must not be disposed of into the sewage system.

13.1.4.



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Trading name:		EOSIN Y 2% ALC	ОНОЦС		
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

13.1.5.	Other disposal recomme	ndations:
	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 lectors authorized by the ministry in charge.
13.1.6.	Relevant Community pro	visions:
	Disposal must be made a	according to official regulations.
SECTION	14 TRANSPORT INFORM	MATION
Т	ransporting/shipment by	road (ADR)
UN numbe	er:	1170
UN prope	r shipping name:	Ethanol solution
Transport	hazard class(es):	3
Packing g	oup:	П
Environme	entally hazardous:	-
Special pro	ecautions for user:	-
Т	ransporting/shipment by	rail (RID)
UN number:		1170
UN prope	r shipping name:	Ethanol solution
Transport	hazard class(es):	3
Packing gı	oup:	П
Environme	entally hazardous:	-
Special pro	ecautions for user:	-
Ir	nland waterway transport	(ADN)
UN numbe	er:	1170
UN prope	r shipping name:	Ethanol solution
Transport	hazard class(es):	3
Packing gı	oup:	П
Environme	entally hazardous:	-
Special pro	ecautions for user:	-
Т	ransporting/shipment by	sea (IMDG)
UN numbe	er:	1170
UN prope	r shipping name:	Ethanol solution
Transport	hazard class(es):	3
Packing gı	oup:	П
Environme	entally hazardous:	-
Special pro	ecautions for user:	-



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Trading name:		EOSIN Y 2% ALC	OHOLIC	<u> </u>	
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

	·
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (ICA	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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:	-				
		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);				
	Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;				
		EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;				
		EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;				
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives				
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste,				
		Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2	Chemical safety assessme	ent				



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Trading name:		ОНОЦС			
Product code:	EOYA-20-OT-X**	Date of compilation:	20 May 2019	Version:	1

SECTIO	ON 16	6. Other information			
16.1	Ind	ication of changes:	-		
			PBT Stable, bioaccumulative and toxic		
			vPvB Strongly stable and strongly bioaccumulative.		
16.2	Abl	previations 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.		ssification and procedure (72/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classif	Classification		Classification procedure		
-			-		
16.5.	Rel	evant H statements (numb	per and full text)		
		H225	Highly flammable liquid and vapor.		
	H:	H226	Flammable liquid and vapor.		
		H314	Causes severe skin burns and eye damage.		
16.6.	Training advice:		-		
16.7. Further information: We ins			** "X" in the product code marks different volumes (different packagings of the product)		
		ther information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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Trading name:		GENT		
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 us	es of the sul	stance or mi	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.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number: +		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	person:	msds@biogn	<u>ost.hr</u>	
	National contact:		_		
1.4.	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:				
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	TON 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.	it			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.	on			
	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 a	d effects, both acute and delayed				
	Following inhalation:	Inhalation of large amounts of vapors in inadequately ventilated perimete may cause coughing, sneezing, headache and nausea.	:er			
	Following skin contact:	Slight irritation. After short exposure, resorption effects are not likely. Lon 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.	nd			



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Trading name:		GENT		
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 immediat	e medical attention and special treatment needed
	-	

SECTI	SECTION 5 FIREFIGHTING MEASURES					
5.1.	1. Extinguishing media					
	Suitable extinguishing media: Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foa	ım				
	Unsuitable extinguishing media: No information available					
5.2.	2. Special hazards arising from the substance or mixture					
	Hazardous combustion products: No information available					
5.3.	3. Advice for firefighters					
	Use a self-contained open-circuit compressed air breathing apparatus and fireproc Cool closed containers exposed to fire with water spray or vapor.	of clothing.				
5.4.	4. Additional information					
	Remove sources of heat and ignition.					
	Do not contaminate the environment with extinguishing media.					

SECTIO	ECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protect	ive equipment and emergency procedures			
6.1.1.	For non-emergency personne				
	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 (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	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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Trading name:	BLUING REAGENT					
Product code:	BR-OT-X**	Date of compilation:	04 June 2019	Version:	4	

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 generati	ion: Secure proper ventilation.					
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.					
	Other measures:	-					
7.1.2.	Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.						
7.2.	Conditions for safe storage, including any incompatibilities						
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.					
	Packaging materials:	Manufacturer's original packaging.					
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.					
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.					
	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:	-					



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

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	-		-		-	-			
Critical physical paran	neters: s	olubility, fla	mmabilit	ty, corrosivity:	-				
				Consumer					
Route of	A	Acute	cute 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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Trading name:	BLUING REAGENT				
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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 prevent exposure:		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) or visor.		
8.2.2.2.	Skin protection				
			rotective 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		
	()ther 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 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	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	TION 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	ON 11 TOXICOLOGICAL INFORMATION
11.1.	Information on toxicological effects
	Acute toxicity:



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Route of exposure:	Method	Species	Effectiv LD ₅₀ /L ATE _n	C ₅₀ or	Exposure time		Results
Oral exposure:	No information available	-	LC	LD ₅₀		-	
Dermal exposure:	No information available	-	LD	LD ₅₀ -		-	
Inhalation exposure:	No information available	-	LC	LC ₅₀ -			-
Specific ta	rget organ toxicity	– single exposi	ure (STOT SE):				
	Sp	ecific effects		Target organ		Note	
Oral exposure:	No informat	ion available	No ir	No information available		_	
Dermal exposure:	No informat	ion available	No ir	formation	n available	-	
Inhalation exposure	e: No informat	ion available	No ir	formation	ation available -		
Respirator	y irritation:	No	information av	ailable			
į ,	,						
Irritation a	nd corrosion						
	Exposure ti	me Spe	cies Evalu	uation	Method		Note
Skin irritation:	-	rabbit	-	_	-		
Eye irritation:	-	rabbit	-	-	-		
Sensitizatio	n .						
Dermal exposure:	No information a	vailable					
Inhalation No information available							
exposure:							
Symptoms	related to the phy	sical, chemical	and toxicologic	cal charact	teristics		
Oral exposure:		ay cause discor				ns.	
Dermal exposure:		Allergic persons may display irritation.					
Inhalation exposure: Allergic persons may dis				orolonged	l or repeated	l exposi	ıre.
Eye exposure:	May cause irri			<u> </u>		•	
Repeated	dose toxicity (suba	cute. subchroni	ic. chronic)				
	•	Exposure	Species	Method		ıation	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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	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 info	rmation 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	-



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							:		:	
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 infor available	mation	No inform available	nation				No information available	
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 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 toxicity on fish		fish LC ₅₀	No inf	ormation	No information	No info	ormation	No infor		-



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			1					. !			
				available	availa	able	availab	le			
Chronic toxicity on crustacea (<i>Daphnia</i>		-	EC ₅₀	No information available	No infor availa	mation able	No informa availab		No ir availa	nformation able	-
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
		rmation lable	No information available	No informa available	tion	No inf availat	ormatior ole	า		-	
	Ads	orption / c	lesorption			<u>.i.</u>					
Transpo		A/D o	coefficient	log Kow	w Evaporation rate Metho		Metho	d	Note		
Soil-wa	ter	No available	's constant information	No information available available		nation	No information - available				
Water-a	air	No available	information	No information No inf		o inform	rmation No inform		ıforma	tion -	
Soil-air		No available	information	No information	on N	o inform ailable	nation		ıforma	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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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	e disposal – relevant i	information:						
	Waste i	must not be disposed	d of into the sewage system.						
13.1.5.	Other o	disposal recommenda	ations:						
	authori the pac	zed by the ministry in	uct's remains into the sewage syst in charge. Do not dispose of the p ors authorized by the ministry in a	ackaging into the se	ewage system. Submit				
L3.1.6.	Relevar	nt Community provisi	ons:						
	-								
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 proper shipping 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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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	ECTION 15 REGULATORY INFORMATION						
15.1.	Safety, health and envi	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or re	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.	5. Relevant H statements (number and full text)		
	H: -	_	
16.6.	Training advice:	-	



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

		** "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:		BIOMOUN	INT 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	Product identifier				
	Trade name:	BIC	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 advi against:	sed	The product is intended for use only as an <i>in vitro</i> diagnostic medical dev 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 +385 1 2409997		
	Telephone number:		+385 1 240999			
	Telefax:		+385 1 240403	39		
	e-mail of competent p	ersor	n: <u>msds@biogno</u>	st.hr		
	National contact:		-			
1.4.	Emergency telephone	numb	pers			
_	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	ce or mixture			
2.1.1.	Classification according to R	egulation (EC) No 12	272/2008 (CLP)		
	Hazard class and cat	tegory 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 NEW LOW				
	Identification number: -				
	Authorisation number:	-			



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Trade name:	BIOMOUNT NEW LOW				
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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		
	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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Trade name:	BIOMOUNT NEW LOW				
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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	CTION 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	ECTION 6. Accidental release measures		
6.1.	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-circ dissipation (fireproof clot	uit compressed air breathing apparatus, a set for protecting the body from heat hing).		
6.2.	Environmental precaution	nental precautions:		
		e sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by allowing the chemicals to enter the sewage system, surface water or groundwater.		
6.3.	Methods and materials fo	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			
	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	ECTION 7. Handling and storage				
7.1.	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:				
	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 (ignitis 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 liquonductivity.				
	Industrial sector specific solutions:	-				

SECTIO	SECTION 8. Exposure controls/personal protection											
8.1.	Contr	trol parameters										
Substance C		CAS N	10	Occupational exposure limit values/short term values		Bio	logical 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	sure:	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	exposure: Route of exposure: Route			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 infor	mation available				
Marine water				No information available						
Marine sedimer	nts				No information available					
Food chain					No infor	mation 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 work	space. Use pers	onal		
		es to prevent exp	osure			nent. Wash hands afte	er handling the	product and		
		dentified uses:				l/or drinking.				
	posur	al measures to p e:	revent			ion should be provide . Use explosion-proff	•			
	-	ational measures exposure:	s to		ation of w	ork in order to reduc	e other worker'	s influence		
Te		al measures to p	revent	See Sec	•					
		l protection equi	ipment:	i						
		face protection:	•	levels o	f concentr	t stick to face (EN 166 ation in air; protective of higher levels of co	e gas mask that	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:	rds: 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:	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	CTION 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} time								
Oral:	No information available	rat LD ₅₀ > 5000 mg/kg -		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):					
Specific effects Target organ Note								
Oral:	No information ava	ailable	No information av	ailable	-			



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_										
Dermal:		o informatio			<u> </u>	information availa		le -		
Inhalation:	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	า	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 resp	oiratory sens	itizei	:				
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 n drying or cra	•	low	viscosity content	may c	ause irritat	ion ar	nd
Inhalation			y system irritation, headache, vertigo, nausea and faint may occur during exposure oncentrations 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 No information dermal available			No information available	No informat available		No information available	No infor avail	mation able	-	
Subacute inhalation	No i avail	nformation able	No information available	No informat available		No information available	No infor avail	mation able	-	



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	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	No information available	No information available	No information available	No information available	No information available	on	-
Chronic inhalation	No information 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				_	
Subacute derma		lo information a				-	
Subacute inhalat		lo information a		No information a		-	
Subchronic oral	N	o information available		No information a	vailable	-	
Subchronic dern	nal N	lo information available		No information a	vailable	-	
Subchronic inha	ation N	o information available		No information available		-	
Chronic oral	١	lo information a	available	No information a	ıvailable	-	
Chronic dermal	١	lo information a	available	No information available		-	
Chronic inhalation	on N	lo information a	available	No information a	ıvailable	-	
CMR ef	fects (carcinogenio	city, mutagenicit	ty, reproductive	e toxicity)			
Carcino	genicity:		not mutageni	nicity studies were c and causes a m chronic exposure	inimal level	of to	oxicity, it can be
Mutage	enicity <i>in-vitro</i> :		No information	on available			
Genoto	xicity:		No information	on available			
Mutage	enicity <i>in-vivo</i> :		No information	on 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		information lable		_	
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	Method		Evaluation	on		Note
information available		o information railable	-	-	- No informatio available		n 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			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 LC ₅₀		1	orm ilab	ation ole	No information available		No information available	1	rmation ilable	Not expected.	



Trade name:						BIOMOUNT NEW LOW					
Produc	t code:	BN	/NL-	X**	Date of co	mpilatio	n: 0	4 June 2019	Version:	3	
crustacea (Danhnia)		No nformation vailable	formation information		No information available	No information available	Not expected				
12.4.	Mobilit	y in soil	l								
	Known	or pred	dicted	distributio	n in environm	nental cor	npartn	nents:			
	Surface	tensio	n:			<u>.</u>					
	Valu	ue		°C	Concentra	ition		Method	N	ote	
	information		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			n available	No in			information ailable	No information	-	
Water- <i>F</i>	r-Air No information available		No informatio available				available No information available	-			
Soil-Air	oil-Air No information available		No in 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:					
	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 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	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 or expose such containers to heat, flame, 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: -	

SECTION 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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	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 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)			
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act		
15.2.	Chemical safety assessme	ent		
	None			

SECTIO	SECTION 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.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classification Classification proced		Classification	procedure		
_			-		
16.5.	Relevant H statements (number and full text)			t)	
	H:	304	May be fatal if 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 exposure may cause skin dryness or cracking.		



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16.6.	Training advice:	-
		** "X" in the product code marks different volumes (different packaging of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario resulting to Chemical safety assessment	
-	