

KIT FOR RAPID HE STAINING OF FROZEN AND PARAFFIN-EMBEDDED SECTIONS

The kit contains:

BioClear New BioFix Histanol 100 Histanol 95 Deionized water Hematoxylin G2 Bluing reagent Eosin Y 2% alcoholic BioMount New Low



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Trade name:	BIOCLEAR NEW					
Product code:	BCN-X**	Date of compilation:	14 November 2022	Version:	7	

1.1.	Product identifier					
	Trade name:	BIOC	CLEAR NEW			
	Chemical name:	-				
	Catalogue number:	BCN	-X**			
1.2.	Relevant identified use	es of th	e substance or mix	ture and uses advised against		
	Uses: Xy		Xylene substitute u	ised as clearing agent.		
	Uses advised against: On		Only the identified	uses are advised.		
	Reason why uses advised re		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 here is no reason to use it for other purposes.			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognc	msds@biognost.hr		
	National contact:		-	-		
1.4.	Emergency telephone	Emergency telephone numbers				
	National Protection ar	nd Resc	ue Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or	[.] mixture				
2.1.1.	Classification according to Regul	ation (EC) No 127	72/2008 (CLP)			
	Hazard class and catego	ry code:	Warning statements*:			
	Aspir. Tox. 1		H304			
2.1.2.	Additional information					
	EUH066					
* For fu	ll text of Hazard- and EU Hazard-s	tatements: see SI	ECTION 16			
2.2.	Label elements					
	Product identification:	BIOCLEAR NEW	1			
	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:	 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents and container in accordance with local regulations.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	flammable mixtures. Vapour accu Health Hazards: Repeated exposure may cause ski Environmental Hazards:	

SECTION 3. Co	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
- 920-901-0 -	01-2119456810-40	100%	Hydrocarbons, C11- C13, isoalkanes, <2% aromatics	Aspir. tox. 1; H304 EUH066				

SECTIO	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.			



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	Following inhalation:		Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.
	Following skin contact:		Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
	Following eye contact:		Flush thoroughly with water. If irritation occurs, get medical assistance.
	Following ingestion:		DO NOT induce vomiting. Seek immediate medical attention.
	Self-protection of the f aider	irst	-
4.2.	Most important sympto	oms ai	nd effects, both acute and delayed
	Following inhalation:	No iı	mportant symptoms or effects.
	Following skin contact:	No ii	mportant symptoms or effects.
	Following eye contact:	No important symptoms or effects.	
	Following ingestion:	No important symptoms or effects.	
4.3.	Indication of any imme	diate	medical attention and special treatment needed
	If ingested, material ma	ay be a	aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTIO	SECTION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.				
	Unsuitable extinguishing media:	Straight streams of water				
5.2.	Special hazards arising from the subs	tance or mixture				
	Hazardous by products of fire: Sr	moke, fume, incomplete combustion products, carbon oxides.				
5.3.	Advice for firefighters					
	Evacuate the area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.					
5.4.	Additional information					
	-					

SECTIC	DN 6. Accidental release measures
6.1.	Personal precautions, protective equipment and emergency procedures



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6.1.1.	For non-emergency person	nel
	Protective equipment:	See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.
	Accident prevention metho	ds: Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information.
	Emergency procedures:	See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice.
6.1.2.	For emergency responders:	
	H2S, or self contained breat level of exposure. If the exp possible or anticipated, SCI are recommended. Note: gle for emergency use. Chemic	face or full-face respirator with filter(s) for organic vapor and, when applicable, hing apparatus (SCBA) can be used depending on the size of spill and potential osure cannot be completely characterized or an oxygen deficient atmosphere is BA is recommended. Work gloves that are resistant to aromatic hydrocarbons oves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable al goggles are recommended if splashes or contact with eyes is possible. Small < clothes are usually adequate. Large spills: full body suit of chemical resistant, nended.
6.2.	Environmental precautions:	
	Large Spills: Dyke far ahead sewers, basements or confin	d of liquid spill for later recovery and disposal. Prevent entry into waterways, ned areas.
6.3.	Methods and materials for	containment and cleaning up
6.3.1.	Bunding, covering of drains; capping procedures:	Land Spill: Stop leak if you can do so without risk. Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.
6.3.2.	Cleaning up:	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Recover by pumping or with suitable absorbent.
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 informatic See Section 8 for informatic See Section 13 for informat	n about personal protective equipment.

SECTIO	N 7. Handling and storage
7.1.	Precautions for safe handling



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7.1.1.	Protection measures	
	Measures to prevent fire:	Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source).
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.
	Measures to protect the environment:	When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures.
	Other measures:	This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid.
7.1.2.	Advice on general occupational hygiene:	
	eating, drinking, and/or smoking. Routinely was	such as washing after handling the material and before h work clothing and protective equipment to remove nd footwear that cannot be cleaned. Practice good
7.2.	Conditions for safe storage, including any incompa	atibilities
	Technical measures and storage conditions:	Keep in a cool and well-ventilated area.
	Packaging materials:	Teflon, polypropylene, stainless steel, carbon steel.
	Requirements for storage rooms and vessels:	The type of container used to store the material may affect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release.
	Advices for storage equipment:	Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be earthed and bonded to prevent accumulation of static charge.
	Further information on storage conditions:	Suitable materials and coating are carbon steel, stainless steel, teflon, polyethylene, polypropylene. Unsuitable materials and coatings: butyl rubber, natural rubber, ethylene-proplyene-diene monomer (EPDM), polystyrene



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7.3.	Specific end use(s)	
	Recommendations:	Section 1 informs about identified end-uses.
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection							
8.1. Control para	meters						
Substance		CAS	No	Occupation limit values, valu	/short term	Bio	ological limit values
				ppm	mg/m ³		
Hydrocarbons, C11-C isoalkanes, <2% aron		-		171*	1200*	No i	nformation available
* Source - material sa	afety dat	a sheet provi	ded by the r	aw materials	supplier		
Substance: -		1			1		
EC No: -		CAS No:	-				
DNEL							
	1		Ir	ndustrial			
Route of exposure:	Route exposi		Route of ex	(posure:	Route of ex	posure:	Route of exposure:
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
Critical physical para	meters: s	solubility, flan	nmability, co	orrosivity:	-		
			C	onsumer			
Route of exposure:	Route exposi		Route of ex	(posure:	Route of ex	posure:	Route of exposure:
Oral	-		-		-		-
Inhalation	-		-		-		-
Dermal	-		-		-		-
PNEC							
Environmental protect	ction tar	get		PNEC			
Fresh water No information a			tion available	9			
Freshwater sediments			No information available				
Marine water				No informa	tion available	9	
Marine sediments				No information available			
Food chain				No information available			



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Microorg	anisms in sewage treatment		No information available		
Soil (agrio	cultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering control	s			
	Substance/mixture related measures to prevent exposure during identified uses:	equipn	eat, drink or smoke in the workspace. Use personal protective nent. Wash hands after handling the product and before and/or drinking.		
	Structural measures to prevent exposure:	•	ate ventilation should be provided so that exposure limits are ceeded. Use explosion-proff ventilation equipment.		
	Organisational measures to prevent exposure:	-	ization of work in order to reduce other worker's influence work process.		
	Technical measures to prevent exposure:	See Se	ction 7.2		
8.2.2.	Personal protection equipment:				
8.2.2.1.	Eye and face protection:	e protection: If contact is likely, safety glasses with side shields are recomme			
8.2.2.2.	Skin protection				
	Hand protection:	are re style prote conti minir	blonged or repeated contact is likely, chemical-resistant gloves ecommended. If contact with forearms is likely, wear gauntlet- gloves. Nitrile, minimum 0.38 mm thickness or comparable ective barrier material with a high performance level for inuous contact use conditions, permeation breakthrough mum 480 minutes in accordance with CEN standards EN 420 EN 374.		
	Other skin protection:		olonged or repeated contact is likely, chemical, and oil tant clothing is recommended.		
8.2.2.3.	Respiratory protection:	conce healt selec regul consi Half- Com 405 p recor For h respi respi levels	gineering controls do not maintain airborne contaminant entrations at a level which is adequate to protect worker th, an approved respirator may be appropriate. Respirator tion, use, and maintenance must be in accordance with latory requirements, if applicable. Types of respirators to be idered for this material include: face filter respirator Type A filter material, European mittee for Standardization (CEN) standards EN 136, 140 and provide respirator masks and EN 149 and 143 provide filter mmendations. high airborne concentrations, use an approved supplied-air rator, operated in positive pressure mode. Supplied air rators with an escape bottle may be appropriate when oxygen s are inadequate, gas/vapour warning properties are poor, or purifying filter capacity/rating may be exceeded.		



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8.2.2.4.	Thermal hazards:	No information available.
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.
	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

•	Information on basic physical ar	nd chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	faint/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	188°C - 210 °C	ASTM D86
	Flammability:	Not technically feasible	No information available
	Lower and upper explosion limit:	lower: 0.6 upper: 6.0	Extrapolated
	Flash point:	68 °C	ASTM D-93
	Auto-ignition temperature:	222 ℃	ASTM E659
	Decomposition temperature:	No information available	No information available
	pH:	Not technically feasible	No information available
	Kinematic viscosity:	1.3 cSt (1.3 mm ² /sec) at 40 °C 1.74 cSt (1.74 mm ² /sec) at 20 °C	Calculated
	Solubility:	Negligible	No information available
	Partition coefficient n- octanol/water (log value):	> 4	Estimated
	Vapour pressure:	0.04 kPa (0.3 mm Hg) at 20 °C	No information available
	Density and/or relative density	0.76 (at 15 °C) with respect to water	Calculated
	Relative vapour density:	5.7 at 101 kPa (Air=1)	Calculated
	Particle characteristics:	Median particle size	Not applicable



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9.2.	Other information				
	Evaporation rate:	0,04 (r	-butyl acetate = 1)	Calculated	
	Explosive properties:	None		No information available	
	Oxidising properties:	None		No information available	
	Density (at 15 °C):	760 kg	/m ³	ISO 12185	
	Pour Point:	< -114	°C	ASTM D5950	
	Molecular Weight:	165 g/	mol	Calculated	
	Hygroscopic:	No		No information available	
	Coefficient of Thermal Expansion:	0.0009	8 per Deg C	Calculated	
SECTIO	ON 10.: Stability and reactivit	ÿ			
10.1.	Reactivity:		See sub-section below.		
10.2.	Chemical stability:		The product is stable under normal conditions.		
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 oxidisers.		
10.6.	Hazardous decomposition p	roducts:	Material does not decompose at ambient temperatures.		

	oxicological informatio				
11.1. Inform	hation on hazard classes	as defined in I	Regulation (EC) No 1272/2	2008	
Acute	toxicity:			:	
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC or ATE _{mixture}	50 Exposure time	Results
Oral:	No information available	rat	LD ₅₀ > 5000 mg/kg	-	Minimally toxic.
Dermal:	No information available	rabbit	LD ₅₀ > 5000 mg/kg	-	Minimally toxic.
Inhalation:	No information available	rat	LC ₅₀ > 5000 mg/ m ³	8 h	Minimally toxic.
Specifi	ic target organ toxicity -	single exposu	re (STOT-SE):		
· · ·	Specifi	c effects	Target or	gan	Note
Oral:	No information av	ailable	No information a	vailable -	
Dermal:	No information av	ailable	No information a	vailable -	
Inhalation:	No information av	ailable	No information a	vailable -	



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	Den X	Date of	compliation.	TTTTOVCINDC		
Aspirati	ion hazard:		aspiration, a no chemical proper and also if it is derived. Risks fro be controlled b substances class mplemented to	on-quantifiable ties (i.e. viscosity vomited followi om the physicoch y implementing ified as H304, th o control the asp	hazard deter) that can oco ng ingestion. nemical hazaro risk managen to following n piration hazar	lates to potential for mined by physico- cur during ingestion A DNEL cannot be ds of substances can ment measures. For neasures need to be d. Do not ingest. If tion. Do NOT induce
Irritatio	n and corrosion					
	Exp	osure time	Species	Evaluation	Method	Note
Skin corrosion/irritati	on No inform	ation available	-	Not irritating.	-	-
Serious eye damage/irritatio	n No inform	ation available	-	Not irritating.	-	-
Sensitiz Skin sensitization Respiratory	n: Not expect	ed to be a skin	sensitizer. iratory sensitize	r		
sensitization:						
	oms related to the			-	tics	
Oral exposure:			d enters airways			
Dermal exposure Inhalation exposure:		<u> </u>	discomfort and d t/normal handlin	ng temperatures	•	
Eye exposure:	May cause m	ld, short-lasting	g discomfort to	eyes.		
Kepeate	ed dose toxicity (su		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	-



Chronic dermal

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available

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Subacute inhalation	No informatio available	n information available	No information available	No information available	No information available	-
Subchronic oral	No informatio available	n No information available	No information available	No information available	No information available	_
Subchronic dermal	No informatio available	n No information available	No information available	No information available	No information available	-
Subchronic inhalation	No informatio available	n No information available	No information available	No information available	No information available	-
Chronic oral	No informatio available	n No information available	No information available	No information available	No information available	_
Chronic dermal	No informatio available	n No information available	No information available	No information available	No information available	_
Chronic inhalation	No informatio available	n No information available	No information available	No information available	No information available	_
Specific	target organ to	xicity - repeated	exposure (STOT- c effects	-RE): Target	organ	Note
Subacute oral		No information			No information	
Subacute derma		No information	available	No available	_	
Subacute inhalat	ion	No information	available	No available		
Subchronic oral	nic oral No information available		No available	information	-	
Subchronic derm	nal	No information available		No available	information	-
Subchronic inhal	ation	No information	available	No available	information	-
Chronic oral		No information	available	No available	information	-
Chronic dermal		No information	available	No	information	-

No information available



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Chronic	inhalation	No information ava	ilable	No available	information	-	
	CMR effects (carcinoge	enicity; mutagenicity;	reproductive to	oxicity)			
	Carcinogenicity:			imilar mate		d on test data for uivalent or similar to	
	Mutagenicity in-vitro:		No information	on available			
	Genotoxicity:		No information	on available			
	Mutagenicity in-vivo:		No information	on available			
	Germ cell mutagenicity	<i>/</i> :	Not expected to be a germ cell mutagen. Based on test for structurally similar materials. Test(s) equivalent or si to OECD Guideline 471 473 474 476 478 479.				
	Reproductive toxicity:		Not expected to be a reproductive toxicant. Based on te data for structurally similar materials. Test(s) equivalent o similar to OECD Guideline 413 414 415.				
	Summary of evaluat properties:	tion of the CMR	No information	on available			
11.2.	Information on other h	nazards:					
11.2.1.	Endocrine disrupting p	properties:					
	No known endocrine c that affect human heal	lisrupting properties					
11.2.2.	Other information:						
	Vapour concentration tract, may cause heada Prolonged and/or repe irritation and dermatiti vomiting may cause ch	aches and dizziness, a eated skin contact wit is. Small amounts of li	re anasthetic m h low viscosity quid aspirated	ay have oth materials m into the lur	ner central nervo ay defat skin re	ous system effects. sulting in possible	

SECTION 12. Ecological information							
12.1. Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish:	LC ₅₀	96 hours	Oncorhynchus mykiss	No information available	-	1000 mg/l	
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	-	1000 mg/l	



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Algae/aquatic plants:	IC ₅₀	72 hours	Pseudokirchne riella subcapitata	No information available	-	1000 mg/l
Other organisms:	-	-	-	-	-	-
Chronic (long- 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:	-	21 day(s)	Daphnia magna	-	-	NOELR 1 mg/l

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	-

% Degradation	Time (days)	Method	Evaluation	Note
Percent Degraded 31.3 : similar material	28 day (s)	Ready Biodegradability (water)	No information available	Expected to be inherently biodegradable



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12.3. Bioad	cumulative potentia	al				
Octa	nol-water partition o	coefficient	(log Kow)			
Value	Concentration	pН	°C Method	Evaluation	No	te
	No information			No information	No informa	tion

> 4	No inf availab	formation le	-	- Est	timated	No inform available	nation	No info availabl	ermation le
Bi	oconcentrat	ion Factor ((BCF)						
Value	e	Speci	es	Ν	1ethod	Evaluati	on		Note
No informa available		o informatio ailable	on	No info availabl	rmation e	No informatio available	on	No inforr available	
·····									
Cł	hronic ecoto	xicity				1	1		
١	Value	Dos	- · ·	oosure time	Species	Method	Eva	luation	Note
Chronic toxicity on fish		LC ₅₀	No infori availa	mation able	No information available	No information available			Not expected.
Chronic toxicity on crustacea (Daphnia)		EC ₅₀	No infori availa	mation able	No information available	No information available	No information available		Not expected.
		1	1	1			1		1
12.4. M	lobility in soi	il							
Kr	nown or pree	dicted distr	ibution in	environm	ental compart	ments:			
Sı	urface tensio	on:							
	Value	°C		Concentra	ation	Method		N	ote
N	_							ghly volati	le, will

Value	e	concentration	Wiethod	Note
No information available	No information available	No information available	No information available	Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.



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	Adsorption / desorption				
Transpo	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-Wa	ter No information available	No information available	No information available	No information available	-
Water-A	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.	Results of PBT and vPvB assessm	ent			
	Material does not meet the Read		T or vPvB.		
12.6.	Endocrine disrupting properties				
	No known endocrine disrupting	properties that affect the e	environment.		
12.7.	Other adverse effects				
	No adverse effects are expected				
	N 13. Disposal considerations				
13.1.	Waste treatment methods				
13.1.1.	Product/Packaging disposal:			<u> </u>	
	Submit for disposal to the I Protection. Do not dispose of collectors authorized by the m	the product's remains into	the sewage s	ystem. Submit the re	emains to the
13.1.2.	Waste codes/waste designatio	ns according to Law:			
	The European Waste Catalog constituents. Determine the EV the hazardous waste list establ	/C according to the criteria	provided in th	e European Waste C	
40.40					
13.1.3.	Waste treatment – relevant inf				
	Disposal recommendations ba applicable laws and regulation		•		with current



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Trade name:		BIOCL	EAR NEW	
Product code:	BCN-X**	Date of compilation:	14 November 2022	Version: 7

13.1.4.	Sewage disposal – relevant ir	nformation:			
		ng in an enclosed controlled burner for fuel value or disposal by supervised peratures to prevent formation of undesirable combustion products.			
13.1.5.	Other disposal recommenda	tions:			
	dangerous. Do not attempt to be completely drained and so should be taken for recycling in accordance with governmo GRIND, OR EXPOSE SUCH ((where applicable): Empty containers may contain residue and can be to refill or clean containers without proper instructions. Empty drums should afely stored until appropriately reconditioned or disposed. Empty containers g, recovery, or disposal through suitably qualified or licensed contractor and ental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER Y MAY EXPLODE AND CAUSE INJURY OR DEATH.			
13.1.6.	Relevant Community provision	ons:			
	-				
SECTION	14. Transport information				
-	Transporting/shipment by road	d (ADR)			
UN numb	per:	Not subject to transport regulations.			
UN prope	er shipping name:	-			
Transport	t hazard class(es):	-			
Packing g	jroup:	-			
Environm	ental hazards:	-			
Special p	recautions for user:	-			
-	Transporting/shipment by rail	(RID)			
UN numb	oer:	Not subject to transport regulations.			
UN prope	er shipping name:	-			
Transport	t hazard class(es):	-			
Packing g	jroup:	-			
Environm	ental hazards:	-			
Special p	recautions for user:	-			
-	Transporting/shipment by inla	nd waterways (ADN)			
UN numb	per:	Not subject to transport regulations.			
UN prope	er shipping name:	-			
Transport	t hazard class(es):	-			
Packing g	jroup:	-			
Environm	ental hazards:	-			



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Trade name:		BIOCL	EAR NEW	
Product code:	BCN-X**	Date of compilation:	14 November 2022	Version: 7

Special precautions for user:	-
Transporting/shipment by sea (IN	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:	-
Special precautions for user:	-
Further information: -	

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



BIOGNOST[®] SAFELY DATA STIELT According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trade name:				Page 18	51 19				
			BIOCLEAR NEW						
Product code: BCN-X**		BCN-X**	Date of compilation: 14 November 2022	Version:	7				
		regulations:	Regulation (EC) No 1907/2006 of the European Parliament a 18 December 2006 concerning the Registration, Evaluatio Restriction of Chemicals (REACH), establishing a European amending Directive 1999/45/EC and repealing Council Regula and Commission Regulation (EC) No 1488/94 as well as Council and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC Directive 2004/42/CE of the European Parliament and of the Co on the limitation of emissions of volatile organic compounds du solvents in certain paints and varnishes and vehicle refinishing p Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament an December 2008 on classification, labelling and packaging of sul amending and repealing Directives 67/548/EEC and 1999/2 Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the mar dangerous substances, mixtures and articles (Annex XVII);	on, Authori an Chemica ation (EEC) il Directive and 2000/2 ouncil of 2 ⁻ ue to the us products and f the health d of the Co bstances ar 45/EC, and rket and us	sation an No 793/9 76/769/EE 21/EC; April 200 e of organi d amendin a and safet buncil of 1 ad mixture: amendin e of certai				
	Informati guideline	-	9/13/EC about limitation of emissions of volatile organic con	mpounds	(VOC-				
	National	legislation:	Chemicals Act, Regulation on classification, packaging an dangerous substances, Ordinance on occupational expose on biological limit values, Regulation on categories, type of waste with a waste catalog and list of hazardous waste writing Material safety data sheet, Transport of Hazardou	sure limit s and clas e, Ordinan	values and sification ce on				
15.2.	Chemical	safety assessme	nt						
	_	,							

SECTIO	SECTION 16. Other information					
16.1.	Indication of changes:	Composition: Component Table for REACH information was modified. Section 09 median particle size information was added. Section 09: Freezing Point °C(°F) information was deleted. Section 09: Melting Point °C (F) information was deleted. Section 11 EU Annex II Endocrine Disruptor Data information was added. Section 12 EU Annex II Endocrine Disruptor Data information was added. Section 2 EU Annex II Endocrine Disruptor Data information was added. Section 9 melting and freezing points information was added.				



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

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Trade	Trade name:		BIOCL	EAR NEW		
Product code: BCN-X**			Date of compilation:	14 November 2022	Version: 7	
16.2.	Abbrevi acronyn		ADR: Accord relatif au trans route (European Agreement Goods by Road) IMDG: International Maritime IATA: International Air Transp GHS: Globally Harmonised S EINECS: European Inventory o CAS: Chemical Abstracts Se DNEL: Derived No-Effect Lev LC50: Lethal concentration, LD50: Lethal dose, 50 percen PBT: Persistent, Bioaccumu vPvB: very Persistent and ve	Concerning the Internation Code for Dangerous Goods oort Association System of Classification and L If Existing Commercial Chem rvice (division of the America el (UK REACH) 50 percent nt lative and Toxic	al Carriage of Dangerous abelling of Chemicals ical Substances	
16.3.		ature references rce of data:	-			
16.4.		ation and procedure 108 (CLP)	e used to derive the classificat	tion for mixture according	to Regulation (EC)	
Classifi	cation		Classification procedure			
_			-			
16.5.	Relevan	t H statements (nun	nber and full text)			
	H: 30	4	May be fatal if swallowed a	•		
	(EUH066)		Repeated exposure may cause skin dryness or cracking.			
16.6.	Training	advice:	-			
16.7.	Further information:		 ** "X" in the product code the product) We are not responsible for instructions for use or impr material safety data sheet. 	consequences in case of	failure to comply with	

ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trade name:		I	BIOFIX		
Product code:	BF-X**	Date of compilation:	22 Dec 2022	Version:	5

1.1.	Product identifier				
	Trade name:	BIOFIX			
	Chemical name:	-			
	Catalogue number:	BF-X**			
1.2.	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:	Methyl alcohol-based fixative for cryostat sections.			
	Uses advised against:	Only the identified uses are advised.			
	Reason why uses advised against:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3.	Details of the supplier of the safety data sheet				
	Supplier:	BioGnost Ltd.			
	Address:	Medjugorska	59, Zagreb		
	Telephone number:	+385 1 24099	97		
	Telefax:	+385 1 24040	39		
	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 Corr. 1B	H314			
	Skin Sens. 1B	H317			
	Acute Tox. 3	H331			
	Muta 2	H341			
	STOT SE 1	H370			
2.1.2.	Additional information				



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Trade name:Product code:BF-X**Date:				BIOFIX		
		Date of compilation:	22 Dec 2022	Version:	5	
	No knowi	f PBT and vP	Properties: srupting properties vB assessment: According to	o the results of its assess	ment, this substa	ance is not a
* For f	full text of Ha	azard- and EU	Hazard-statements: see SECT	ION 16		
2.2.	Label eler					
	Product id	dentification:	BIOFIX			
	Identificat	tion number:	-			
	Authorisa	tion number:	-			
	Hazard pi	ctograms:	GHS02 GHS05	GHS06 GHS08		
	Signal wo	rd:	Danger			
	Hazard st	atements:	H301+H311+H331 T H314 Causes sever H317 May cause a H341 Suspected o H350 May cause c	nable liquid and vapor. Toxic if swallowed, in cor Te skin burns and eye da n allergic skin reaction. If causing genetic defects ancer. age to organs (eyes).	mage.	if inhaled.
	Precautio	nary statemer	smoke. P301+P310 IF SWAL P302+P352 IF ON SI P304+P340 IF INHAI position comfortable P305+P351+P338 IF minutes. Remove co rinsing.	rom heat/sparks/open fl LOWED: Immediately ca (IN: Wash with plenty of ED: Remove victim to fr e for breathing. IN EYES: Rinse cautious ntact lenses, if present a ed or concerned: Call a l	II a POISON CEN soap and water. esh air and keep ly with water for nd easy to do. Co	TER/doctor. at rest in a several ontinue
	Suppleme	etal hazard on (EU):	-			



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Trade name:	BIOFIX				
Product code:	BF-X**	Date of compilation:	22 Dec 2022	Version: 5	
	•		*		

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)		
67-56-1/ 200-659-6/ 603-001-00-X	-	80 – 85 %	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	-	9 – 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	-	4 – 5 %	acetic acid, 99%	Flam. Liq. 3; H226 Skin corr. 1A; H314		

4.1.	Description of first aid n	neasures
	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 sympto	ms and effects, both acute and delayed



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Trade name:	BIOFIX				
Product code:	BF-X**	Date of compilation:	22 Dec 2022	Version:	5

	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.
4.3.	Indication of any immed	liate 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:	No information available				
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 cor	npressed air breathing apparatus and fireproof clothing.				
	Cool closed containers exposed to fin	e with water spray, in order to prevent explosion.				
5.4.	Additional information					
	Remove sources of heat and ignition.					
	Do not contaminate the environment	t with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective ec	quipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment: Use personal protective equipment (see Section 8).					
	Accident prevention methods: Accident prevention methods: Evacuate members of all non-essential personne members without protective equipment. Do not brea ensure adequate ventilation and avoid contact with s Remove all sources of sparks and ignition. Do not small					
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).					
6.2.	Environmental precautions:					



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Trade name:	BIOFIX				
Product code:	BF-X**	Date of compilation:	22 Dec 2022	Version: 5	

	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	s for containment and cleaning up			
6.3.1.	Bunding, covering of drains; cappingSand or clay barriers.procedures:Sand or clay barriers.				
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 info	rmation 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.			
	Measures for preventing spray and dust formation	es for preventing spray and dust formation:				
	Environmental precautions:		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. Thor	oughly wash	hands after work and before eating.			
7.2.	Conditions for safe storage, including any incomp	atibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well-ventilated storage rooms, and away from source of heat, sunlight, and other incompatible substances				
	Packaging materials:	Manufactur	er's original packaging.			
	Requirements for storage rooms and vessels:	Keep away tightly close	from food and drink. Keep the containers ed.			



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Trade name:		BIOFIX						
Product code:	BF-X**	Date of compilation:	22 Dec 2022	Version: 5				
			The storage must be ma	de of hard material; floors				

	Advices for storage equipment:	must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection							
8.1. Control para	imeters						
Substance	CAS No		Occupational exposure limit values/short term values		ological limit values		
		ppm	mg/m ³				
Methanol	67-56-1	200/-	260/-	-			
Formaldehyde	50-00-0	0.3/0.6	0.37/0.74	-			
Acetic acid	64-19-7	10/20	25/50	-			
* For all results pertai consideration	ning creatinine lev	els, creatinine concentrati	ion < 0.5 g/l an	d > 3.0 g/	'l may not be taken into		
Substance: -							
EC No: -	No: - CAS No: -						
DNEL							
		Industrial					
Route of	Acute	Acute	Chron	ic	Chronic		
exposure:	effect local	effect systemic	effect local		effect systemic		
Oral	-	-	-		-		
Inhalation (formaldehyde) 260 mg/m ³ (methanol)		260 mg/m ³ (methanol)	0.375 mg/m ³ (formaldehyde) 260 mg/m ³ (methanol)		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: solubility, f	lammability, corrosivity:		-			
		Consumer					



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Route of exposure:	Acute effect local	Acute effect systemic		Chronic effect local	Chronic effect systemic	
Oral	-	- 8 mg/kg (meth		-	4.1 mg/kg (formaldehyde) 8 mg/kg (methanol)	
Inhalation	50 mg/m³ (methanol)	50 mg/m ³ (methanol)		0.1 mg/m ³ (formaldehyde) 50 mg/m ³ (methanol)	3.2 mg/m ³ (formaldehyde) 50 mg/m ³ (methanol)	
Dermal	-	8 mg/kg (methanol)		0.012 mg/cm ² (formaldehyde)	102 mg/kg (formaldehyde) 8 mg/kg (methanol)	
PNEC						
Environmental prote	ction target		PNEC			
Fresh water			0.44 mg/l (formaldehyde) 154 mg/l (methanol)			
Freshwater sediment	S		2.3 mg/kg (formaldehyde) 570.4 mg/kg (methanol)			
Marine water			0.44 mg/l (formaldehyde) 15.4 mg/l (methanol)			
Marine sediments			2.3 mg/kg (formaldehyde)			
Food chain			No information available			
Microorganisms in se	ewage treatment		0.19 mg/l (formaldehyde) 100 mg/l (methanol)			
Soil (agricultural)			0.2 mg/kg (formaldehyde) 23.5 mg/kg (methanol)			
Air			No information available			
8.2. Exposur	e controls					

0.2.					
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.			



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Trade na	me:	BIOFIX							
Product	code:	BF-X**	Date o	f compilation:	22 Dec 2022	Version:	5		
		iical measures nt exposure:	to	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.					
8.2.2.	Perso	nal protection	equipmer						
8.2.2.1.	Eye aı	nd face protec	tion:		afety glasses. Use equipr der appropriate governn	• •			
8.2.2.2.	Skin p	protection:							
Hand protection:			(EU) 2016/425 and Full contact: Glove ma Glove thic Time unti Splash contact: Gloves ma Glove thic	oves have to satisfy the s d the related standard El terial: nitrile rubber ckness: 0.40 mm l perforation: > 480 min aterial: polychloroprene ckness: 0.65 mm l perforation: >240 min	•	gulation			
	Other	skin protectic	on:	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.	Respi	ratory protecti	on:	type: ABEK (EN 14	vers the entire face (EN 1 I3). Use respirators and c by the standard (EU).				
8.2.2.4.	Thern	nal hazards:		No information av	vailable				
8.2.3.	Environmental exposure controls								
		ance/mixture i ures to preven sure:		See Section 6					
		ural measures nt exposure:	to	Use modern equipment.					
		nisational mea nt exposure:	sures to	Adapt the work process to the required working conditions of the workplace.					
		iical measures nt exposure:	to	See Section 6					

SECTIC	SECTION 9. Physical and chemical properties								
9.1.	Information on basic physical and chemical properties								
		Value	Method						
	Physical state:	liquid	No information available						



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Trade name:			BIOFIX				
Product code:	BF-X**	Date of compilation:	22 Dec 2022	Version: 5			

Other information	3 	
Particle characteristics:	No information available	No information available
Relative vapour density:	No information available	No information available
Density and/or relative density	No information available	No information available
Vapour pressure:	No information available	No information available
Partition coefficient n- octanol/water (log value):	No information available	No information available
Solubility:	No information available	No information available
Kinematic viscosity:	No information available	No information available
pH:	No information available	No information available
Decomposition temperature:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Flash point:	12 °C	No information available
Lower and upper explosion limit:	lower: 6 % (V) methanol upper: 36.5 % (V) methanol	No information available
Flammability:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Melting point / freezing point:	No information available	No information available
Odour/odour threshold:	methanol/no information available	No information available
Colour:	colorless	No information available

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:	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.							

SECTIO	SECTION 11. Toxicological information									
11.1.	Information on toxicological effects									
	Acute toxicity:									



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Trade name:			BIOFIX				
Product code: BF-X**		Date of compilation:	22 Dec 2022	Version:	5		

Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral:	No information available	rat	LD ₅₀	-	125.13 mg/kg (methanol)
Dermal:	No information available	rabbit	LD ₅₀	-	375.13 mg/kg (methanol)
Inhalation:	No information available	rat	LC ₅₀	4 h	3.88 mg/l (methanol)
Specific	target organ toxicity - single	e exposure (S1	fot-se):		
	Specific effect	S	Targ	et organ	Note
Oral:	No information available		No informat	ion available	-
Dermal:	No information available		No informat	_	
Inhalation:	No information available		No informat	-	
Irritatio	n and corrosion				
	Exposure time	Species	Evaluatio n	Method	Note
Skin corrosion/irritatio	on -	-	-		
Serious eye damage/irritatio	n -	-	-		
Sensitiz	ation				
Skin sensitizatior	n: Does not cause sensit	tization.			
Respiratory sensitization:	No information availa	ıble			
Sympto	ms related to the physical, cl	nemical and to	oxicological ch	aracteristics:	
Oral exposure:	Stomach and bowel irritati cause toxic effects.	ion, feeling ur	well, vomiting,	, strong abdomina	l pain. Absorption may
Dermal exposure:	Minimum level of irritation possibility of delayed systemetry		rolonged expo	sure may cause ab	sorption and greater



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	1					Page	11 of 19
Trade name:			B	IOFIX			
Product code:	BF-X**	Date of compilati	on:	22 Dec 2022		Version:	5
Inhalation exposure:	-	on and possible lung y cause toxic effects.	-	ue to hi	igh levels of vap	oor concentrat	ion.
Eye exposure:		ate irritation due to v e. Visual impairments	• •			•	oility of
Repeate	ed dose toxicity (s	ubacute, subchronic,	, chronic)		1	1	
	Dose	Exposure time	Species		Method	Evaluation	Note
Subacute oral	No informatio available	n No information available	No inforr available	nation	No information available	No information available	-
Subacute dermal	No informatio available	n No information available	n No information available		No information available	No information available	-
Subacute inhalation	No informatio available	n No information available	on No information available		No information available	No information available	-
Subchronic oral	No informatio available	No information No informati available available		nation	No information available	No information available	-
Subchronic dermal	No informatio available	No information No inform available available		nation	No information available	No information available	-
Subchronic inhalation	No informatio available	n No information available	No inforr available	nation	No information available	No information available	-
Chronic oral	No informatio available	n No information available	No inforr available	nation	No information available	No information available	-
Chronic dermal	No informatio available	n No information available	No inforr available	nation	No information available	No information available	-
Chronic No information inhalation available		n No information available	No inforr available	nation	No information available	No information available	-
-	·						
Specific	target organ tox	city - repeated expo	sure (STOT	-RE):		i	
		Specific effe	ects		Target orga	n	Note
Subacute oral		No information ava	ilable	No information available		lable -	
Subacute dermal		No information ava	ilable	No information available		lable -	
Subacute inhalat	ion	No information ava	ilable	No ii	nformation avai	lable -	



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Trade name:					BIOFIX			
Product code: BF-X**			Date of compilation:		22 Dec 2022 Vers		sion:	5
Subchronic or			No information ava	ilahla	No information a	vailahla	_	
Subchronic oral Subchronic dermal			No information ava		No information a		_	
Subchronic inł		on	No information ava		No information a		_	
Chronic oral	alati	UII	No information ava		No information a		_	
Chronic derma			No information ava		No information a		_	
Chronic inhala			No information ava		No information a		-	
CMR	effec	ts (carcinoge	nicity, mutagenicity, re	eproductiv	ve toxicity)			
Carci	noge	nicity:		Possible carcinogen.				
Muta	Mutagenicity <i>in-vitro</i> : Genotoxicity: Mutagenicity <i>in-vivo</i> :			Current in vitro tests did not indicate mutagenic effects.				
Geno				No information available				
Muta				Evidence of genetic defects.				
Germ	cell	mutagenicity	· :	No information available				
Repro	duct	ive toxicity:		No toxicity on reproductive organs was determined in low concentrations.				
Sumr prope	-		tion of the CMR	do not carcino evidenc cytotox	studies indicate that cause CMR effects genic activity in exp e for a threshold icity and regenerative n. Further detailed tes	but forma perimental effect for cell prolife	aldehyo anima tumo ration	de has local als; there is rs involving
11.2. Inform	natic	on on other h	azards:					
		disrupting p						
		n endocrine human heal	disrupting properties th.					
11.2.2. Other	info	rmation:						
-								

SECTION 12. Ecological information									
12.1. Toxicity									
Acute (short-term) toxicity	LIOSA · · · · · · · · · · · · · · · · · · ·		Note						
Fish	LC ₅₀	96 hours	Lepomis macrochirus (Bluegill sunfish)	No information available	No information available	15.400 mg/l (methanol)			



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Trade name:					BIOFIX				
Product code:		BF-X**	BF-X** Date of com		ompilation: 22 Dec 2022		2 Version		5
Crustacea:		EC ₅₀	48 hours	Daphnia magna	Nc informa availa	ation	No information available		260 mg/l nanol)
Algae/aquatic plants:		IC ₅₀	8 days	Pseudokirchn eriella subcapitata (green algae)	NO information available		No information available		0 mg/l nanol)
Other organis	sms	-	-	-	-		-	-	
Chronic (long toxicity	-term)	Dose	Exposure time	e Species	Meth	od	Evaluation		Note
Fish		LC ₅₀	96 hours	No information available	No informat available		No information available	-	
Crustacea:		EC ₅₀	48 hours	No information available	No informat available		No information available	-	
Algae/aquatic plants:			72 hours	No information available	No informat available		No information available	-	
Other organis	ms	-	-	-			-	-	
100 0			1						
		and degrada	adility						
ADIO	-	egradation h	alf-lives	Method			Evaluation		Note
Marine water		nformation a		No information a	vailable		ormation	_	Note
Fresh water	No i	nformation a	vailable	No information a	vailable	No info availat	ormation lle	-	
Air	No i	nformation a	vailable	No information a	available No information available			-	
Soil	oil No information available No inform		No information a	mation available No information available			-		
Riod	egrada	ition							
1	-	Time (da	avs)	Method		Evalı	uation	N	ote
% Degradation		-	-	o information avail	able	No inform availab	ation -		



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Trade name:			BIOFIX			
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12.3.		ulative potent									
	-	vater partition	coefficier								
Valu	ie Co	oncentration	рН	°C	Me	Method		Evaluation No information available			Note
-	No avail	information able	-	-	-					-	
	Bioconcer	ntration Factor	· (BCF)								
Value		Spee	pecies		Method			Evaluation		Note	
	No information No info available availab		mation No infor		formatior	ormation available		No information available		No information available	
	Chronic e	cotoxicity	ì		1						÷
Value		Do	se	Exposure time		ecies	ies Method		Evaluation		Note
Chronic toxicity on fish		n fish LC ₅₀	_	rmation lable	No inform availat			ormation	on	rmati lable	-
Chronic toxicity on crustacea (Daphnia)				rmation lable	No inform availat			ormation	on	rmati lable	_
									avai	lable	
12.4.	Mobility i	n soil									
	Known or predicted distribution in environmental compartments:										
	No information available										
Surface tension:											
	Valu	le	°C	°C Concer		tration		Method			Note
	available		rmation	nation ble		n No inform		mation available			-



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Trade name:			BIOFIX		
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T	Adsorption / desorption		1	1						
Transpo	ort A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note					
Soil-Wa	ater No informatio available	n No information available	No information available	No information available	-					
Water-	Air No informatio available	No information available	No information available	No information available	-					
Soil-Air	r No informatio available	n No information available	No information available	No information available	-					
12.5.		Results of PBT and vPvB assessment								
	Substance(s) in the mixture 1907/2006, Annex III or a P			5	Regulation (EC) No					
	1307/2000, Annex III OF a P			iteu.						
12.6.	Endocrino dicrupting prop	rtion								
12.0.	Endocrine disrupting properties									
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission									
	Regulation (EU) 2018/605 at levels of 0.1% or higher.									
12.7.	Other adverse effects									
	1									
SECTIC	ON 13. Disposal considerati	ons								
	ON 13. Disposal consideration Waste treatment method									
	•									
SECTIC 13.1. 13.1.1.	Waste treatment method	S								
13.1.	Waste treatment method	s sal:	g to the nationa	l and local rules and	regulations. Do not					
13.1.	Waste treatment method Product/Packaging dispo Waste material must be o mix with other sorts of w	s sal: lisposed of accordin aste. Submit for disp	-		-					
13.1.	Waste treatment method Product/Packaging dispo Waste material must be d	s sal: lisposed of accordin aste. Submit for disp	-		-					
13.1.	Waste treatment method Product/Packaging dispo Waste material must be o mix with other sorts of w Environmental and Natur	s sal: lisposed of accordin aste. Submit for disp e Protection.	osal to the legal		-					
13.1.	Waste treatment method Product/Packaging disponsion Waste material must be of mix with other sorts of we Environmental and Nature Waste codes/waste design	s sal: lisposed of accordin aste. Submit for disp e Protection.	osal to the legal		-					
13.1.	Waste treatment method Product/Packaging dispo Waste material must be o mix with other sorts of w Environmental and Natur	s sal: lisposed of accordin aste. Submit for disp e Protection.	osal to the legal		-					
13.1.	Waste treatment method Product/Packaging disponsion Waste material must be of mix with other sorts of we Environmental and Nature Waste codes/waste design	s sal: lisposed of accordin aste. Submit for disp e Protection. nations according to	osal to the legal		-					



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Trade n	ame:			BIOFIX						
Product code:		BF-X**	Date of compilation:	22 Dec 2022	Version:	5				
	45.04.4	<u></u>								
	substan		that contains residual hazard	ous substances or is con	itaminated with h	azardous				
13.1.4.	Sewage	Sewage disposal – relevant information:								
	Waste r	nust not be d	isposed of into the sewage sy	stem.						
13.1.5.	Other d	lisposal recon	nmendations:							
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collect authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Su the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places w ignition may occur.									
13.1.6.	Relevan	nt Community	provisions:							
	-									
SECTION	N 14. Trar	nsport inform	nation							
	Transport	ing/shipment	by road (ADR)							
UN number:			1992	1992						
UN proper shipping name:		Flammable liquid,	Flammable liquid, toxic, n.o.s. (methanol solution)							
Transpoi	rt hazard o	class(es):	3 (6.1)	3 (6.1)						
Packing	group:		II							
Environn	nental haz	ards:	-	-						
Special p	precaution	s for user:	-							
	Transport	ing/shipment	by rail (RID)							
UN number:			1992	1992						
UN proper shipping name:		Flammable liquid,	Flammable liquid, toxic, n.o.s. (methanol solution)							
Transport hazard class(es):		3 (6.1)	3 (6.1)							
Packing group:			<u>II</u>							
Environn	nental haz	ards:	-	-						
Special p	precaution	s for user:	-							
	Transport	ing/shipment	by inland waterways (ADN)							
UN num	ber:		1992							
UN prop	er shippir	ng name:	Flammable liquid,	Flammable liquid, toxic, n.o.s. (methanol solution)						
Transport hazard class(es):			3 (6.1)	3 (6.1)						
Packing	group:		II	II						
Environn	nental haz	ards:	-							
Special precautions for user:			-							



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Trade name:			BIOFIX		
Product code:	Product code: BF-X** Date of compilation:		22 Dec 2022	Version:	5

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)
	1000
UN number:	1992
UN number: UN proper shipping name:	1992 Flammable liquid, toxic, n.o.s. (methanol solution)
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
UN proper shipping name: Transport hazard class(es):	Flammable liquid, toxic, n.o.s. (methanol solution) 3 (6.1)
UN proper shipping name: Transport hazard class(es): Packing group:	Flammable liquid, toxic, n.o.s. (methanol solution) 3 (6.1) II
UN proper shipping name: Transport hazard class(es): Packing group: Environmental hazards:	Flammable liquid, toxic, n.o.s. (methanol solution) 3 (6.1) II -

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



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Trade name:	BIOFIX					
Product code:	BF-X**	Date of compilation:	22 Dec 2022	Version:	5	

	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 1999 guideline)	1/13/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	

SECTIC	ON 16. Other information	
16.1.	Indication of changes:	-
16.2.	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
16.3.	Key literature references and source of data:	-



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Trade name:	BIOFIX				
Product code:	BF-X**	Date of compilation:	22 Dec 2022	Version:	5

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classif	Classification Classif		Classification procedure			
-	-		-			
16.5.	Rele	evant H statements (num	ber and full text)			
	225 226 301+311+331 314 H: 317 341		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.			
			May cause an allergic skin reaction.			
			Suspected of causing genetic defects.			
		350	May cause cancer.			
		370	Causes damage to organs if inhaled, if it comes into contact with skin, and if swallowed.			
16.6.	Trai	ning advice:	-			
	7. Further information:		** "X" in the product code marks different volumes (different packaging of the product)			
16.7.			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 100					
Product code:	H100-X**	Revision date:	05 Dec 2022	Version:	6	

1.1	Product identifier					
	Trading name:	HISTANOL 1	HISTANOL 100			
	Chemical name:	Ethyl alcoho	Ethyl alcohol			
	Catalogue number:	H100-X**				
1.2	Relevant identified use	es of the substa	ance or n	nixture and uses advised against		
	Uses:		For use	in histocytology and cytology sample processing.		
	Uses advised against:		Only the comsum	e identified uses are advised. Unsuitable for human aption.		
	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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection an	d Rescue Dire	ctorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			_		

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard statements*:					
	Flam. Liq. 2 H225					
2.1.2.	Additional information					
	-					
*For ful	text of Hazard- and EU Hazard-	statements: see S	ECTION 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:	05 Dec 2022	Version:	6			

	Hazard pictograms:	GHS02		
	Signal word:	Danger		
	Hazard statements:	H225 Highly flammable liquid and vapor.		
	Precautionary statements:	 P210 Keep away from heat, hot sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P403+P235 Store in a well-ventilated place. Keep cool. 		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	The product has no other know	n specific hazards for human or environment.		
	Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.			
	Endocrine disrupting property:	Based on available data, does not contain endocrine disruptors.		

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- 0147	min. 99 %	ethanol	Flam. Liq. 2; H225		

SECTI	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:	Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificial respiration. In case of complaints call a physician.			
	Following skin contact:	Remove the contaminated clothes. Wash the skin surface under plenty of running water. Seek medical assistance if the symptoms of irritation remain.			



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Trading name:		HISTA	NOL 100		
Product code:	H100-X**	Revision date:	05 Dec 2022	Version:	6

	Following eye contact:	In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for at least 10 minutes). If the symptoms remain, immediately call in ophthalmologist.	
	Following ingestion:	Place the victim in a comfortable position. Rinse the mouth with clean water. If the victim is conscious induce vomiting. Do not give the victim anything orally, and do not induce vomiting if the victim is unconscious or suffers from convulsions.	
	Self-protection of the first aider:	-	
4.2	Most important symptoms and effects, both acute and delayed		
	Following inhalation:	Inhalation of larger quantities may affect the central nervous system.	
	Following skin contact:	Prolonged or repeated dermal contact may cause the defatting and dryness of the skin.	
	Following eye contact:	May irritate the eyes.	
	Following ingestion:	Ingestion of larger quantities may affect the central nervous system.	
4.3	Indication of any immediate medical attention and special treatment needed If larger quantities have entered the body, obtain medical treatment (gastric lavage, activated carbon).		

SECTI	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Extinguishing powder, alcohol-resistant foam, water, carbon-dioxide.			
	Unsuitable extinguishing media:	Water with full jet.			
5.2	Special hazards arising from the su	ibstance or mixture			
	Hazardous combustion products:	Highly flammable liquid and vapour. In case of fire, smoke, and other combustion products (carbon monoxide, carbon dioxide) may be formed, the inhalation of such combustion products can have serious adverse effects on health. Vapours may form an explosive mix with air. Vapours may be ignited by open flames, sparks, electrical equipment, or static charge. Vapours may travel to great distances, ignite in contact with ignition sources and flash back to the primer source (container). Vapours of ethyl alcohol mix greatly with air and may form an explosive mixture. Air containing 3.3 – 19 % ethyl alcohol vapours may explode in contact with ignition sources. Diluting the mixture with large amounts of water results in the loss of its flammability (around 10 % concentration of ethyl alcohol).			
5.3	Advice for firefighters				
	Wear full protective clothing and self-contained breathing apparatus. Cool the fire affected containers with water spray. Use water spray to dissipate alcohol vapours.				
5.4	Additional information				
	-				



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Trading name:		HISTA	NOL 100		
Product code:	H100-X**	Revision date:	05 Dec 2022	Version:	6

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			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	ventilation. Vapours may accur	nd clothing and inhaling gases, vapours and aerosols. Ensure adequate mulate at floor level in low and confined spaces. Remove all heat, ignition chines. Ignition spark arrestor must not be operated in the danger area. Use the risk of slipping.			
6.2	Environmental precautions:				
	Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.				
6.3	Methods and material for cont	ainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Cleaning up:	Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. During the collection, placement, disposal of the waste, wear appropriate individual protective equipment. Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution).			
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).			
6.4	Reference to other sections				
	See Section 7 for information on safe handling.				
	See Section 8 for information on personal protection equipment.				
		See Section 13 for disposal information.			

SECTIC	SECTION 7. Handling and storage			
7.1	Precautions for safe handling			
7.1.1.	Protection measures			



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ig name:	HISTANOL 100					
ct code:	H100-X**	Revisior	n date:	05 Dec 2022	Version:	6
Measures	Measures to prevent fire: Measures to prevent aerosol and dust generation:			Use in well ventilated storage rooms. Keep away from heat, hot surfaces, sparks, oper flames and other ignition sources. No smoking. Use non-sparkling tools and equipment.		
Measures				Ensure adequate v	entilation.	
Measures to protect the environment:			Prevent spilling int and waterways.	o the sewage syste	m	
Other measures:			Protect against ele	Protect against electrostatic charges.		
Advice on general occupational hygiene:						
Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.						
Conditions for safe storage, including any incompatibilities						
Technical	measures and storag	om sources of heat an ned and hermetically oxidizing agents, food	d ignition, in its or sealed packaging,	riginal, away		
Packaging				cturer's original packag	jing.	
Requirem	Ke			Keep away from food and drink. Keep the containers tightly closed.		
Advices fo	or storage equipment	:	be resistant to chemicals. There must be no d			in that
Further information on storage conditions: Do not chemic			o not use empty cont als. Do not store with in	ainers for storing	other	
	 ct code: Measures Measures Measures Measures Other me Advice or Do not ea Condition Technical Packaging Requirem Advices for 	ct code: H100-X** Measures to prevent fire: Measures to prevent aerosol and Measures to protect the enviror Measures to protect the enviror Other measures: Advice on general occupational Do not eat, drink or smoke in the Conditions for safe storage, incompared and storage Technical measures and storage Packaging materials: Requirements for storage equipment	ct code: H100-X** Revision Measures to prevent fire: Measures to prevent aerosol and dust generation Measures to protect the environment: Measures to protect the environment: Other measures: Advice on general occupational hygiene: Do not eat, drink or smoke in the workspace. The Conditions for safe storage, including any incom Technical measures and storage conditions: Packaging materials: Requirements for storage rooms and vessels: Advices for storage equipment:	ct code: H100-X** Revision date: Measures to prevent fire: Measures to prevent aerosol and dust generation: Measures to protect the environment: Measures to protect the environment: Other measures: Advice on general occupational hygiene: Do not eat, drink or smoke in the workspace. Thoroughly to conditions for safe storage, including any incompatibilitie Technical measures and storage conditions: Store in away from consumple storage rooms and vessels: Packaging materials: Manufa Requirements for storage rooms and vessels: Keep and tightly of the storage rooms and vessels: Advices for storage equipment: Do not and do the resist directly ventilate Further information on storage conditions: Do not and do the chemic	ct code: H100-X** Revision date: 05 Dec 2022 Measures to prevent fire: Use in well ventila away from heat, h flames and othe smoking. Use n equipment. Use in well ventila away form heat, h flames and othe smoking. Use n equipment. Measures to prevent aerosol and dust generation: Ensure adequate v Measures to protect the environment: Prevent spilling int and waterways. Other measures: Protect against ele Advice on general occupational hygiene: Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work a conditions for safe storage, including any incompatibilities Technical measures and storage conditions: Store in a well-ventilated place away from sources of heat an unopened and hermetically from oxidizing agents, food consumption. Packaging materials: Manufacturer's original packag. Requirements for storage rooms and vessels: Keep away from food and drin tightly closed. Advices for storage equipment: Do not place the unused of be resistant to chemicals. The directly leads into sewage ventilation. Do not place the unused mat and do not use empty cont	g name: HISTANUL 100 ct code: H100-X** Revision date: 05 Dec 2022 Version: ct code: H100-X** Revision date: 05 Dec 2022 Version: Measures to prevent fire: Use in well ventilated storage rooms away from heat, hot surfaces, sparks flames and other ignition source smoking. Use non-sparking tools equipment. Measures to prevent aerosol and dust generation: Ensure adequate ventilation. Measures to protect the environment: Prevent spilling into the sewage syste and waterways. Prevent spilling into the sewage syste and waterways. Other measures: Other measures: Protect against electrostatic charges. Advice on general occupational hygiene: Store in a well-ventilated place, protected from su away from sources of heat and ignition, in its or unopened and hermetically sealed packaging, from oxidizing agents, food, feed and artic consumption. Packaging materials: Manufacturer's original packaging. Requirements for storage rooms and vessels: Keep away from food and drink. Keep the contain tightly closed. Advices for storage equipment: The storage must be made of hard material; floor be resistant to chemicals. There must be no drai directly leads into sewage system. Secure preventilation. Packaging materials: Do not place the unused material in the storage and do not use empty containers for storing and do not use empty containers for storing and do no

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

SECTION 8. Exposure controls/personal protection							
8.1 Control parameters							
Substance	CAS No	•	exposure limit t term values	Biological limit values			
		ppm	mg/m ³				
Ethanol	64-17-5	1000/-	1900/-	-			
Substance name: -							



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Trading na	ame:					HIS	STANO	L 100			
Product co	ode:	H100-X	**		Revisio	on date	:	05 Dec 2022		Version:	6
	i		-		1						
EC No:		-	CAS No	:	-						
DNEL											
					In	dustrial					
Route of		Αсι	ıte		Acute		Cł	nronic		Chronic	
exposure:		effect	local	effe	ct systemi	с	effe	ct local	e	effect systemic	
Oral		-		-		-			-		
Inhalation		1900 mg (ethanol)		-		-			380 mg	/m ³ (ethanol)	
Dermal		-		-		-			343 mg	/kg (ethanol)	
Critical phy	sical para	meters: s	olubility,	flamm	ability, coı	rrosivity		-			
					Co	nsume					
Route of		A	cute		Acute		Cł	nronic		Chronic	
exposure:		effeo	t local	effe	ct systemi	с	effe	ct local	e	effect systemic	
Oral		-		-		-			87 mg/l	kg bw/day (etha	anol)
Inhalation		950 m (ethar	0	-		-			114 mg	/m ³ (ethanol)	
Dermal		-		-		-			206 mg	/kg (ethanol)	
PNEC											
Environmer	ntal prote	ection tar	get			PNEC					
Fresh water	•					0.96 m	g/l (eth	anol)			
Freshwater	sedimen	ts				3.6 mg	/kg (etł	nanol)			
Marine wat	er					0.79 m	g/l (eth	anol)			
Marine sed	iments					2.9 mg	/kg (etł	nanol)			
Food chain						380-72	20 mg/k	g (ethanol)			
Microorgar	nisms in s	ewage tr	eatment			580 m	g/l (etha	anol)			
Soil (agricu	ltural)					0.63 m	g/kg (e	thanol)			
Air						no info	ormatio	n available			
8.2	Exposu	re contro	ls								
8.2.1.	Approp	riate eng	ineering (control	s						
			ire related e during i			concer concer existing	ntration ntration g scien	limit it is the levels down t	e employ o a minir iological	vith no contro ver's duty to k num achievable means, where p workers.	keep e by
	Structu exposu		ires to pre	event		In acco	ordance	with Section 7.			



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						Page 7 of 17	
Trading I	name:			HISTA	NOL 100		
Product	code:	H100-X**	Revisi	on date:	05 Dec 2022	Version:	6
	Orgar expos	nisational measures to pr sure:	event	•	on of work in order to r luring work process.	educe other worker'	S
	Techr	nical measures to prevent	exposure:	avoid spilli contact wit	ce of work is proper for ng onto clothes and flo th eyes and skin. Use ac n methods and with ade	oors and to avoid cording to general	
				Use non-s	parkling ventilation syst	em.	
					propriate personal prot d eye-wash station.	ective equipment, sa	afety
8.2.2.	Perso	nal protection equipmen	t	1			
8.2.2.1.	Eye a	nd face protection:	•	appropriate, chemical-proof protective glasses/face shield (EN 16321-1:2022, EN 166).			
8.2.2.2.	Skin p	protection					
	Hand	protection:	Use ap	propriate, cl	nemical-resistant protec	ctive gloves (EN 374)	•
	Other	skin protection:	Use ap	propriate pr	otective clothing.		
8.2.2.3.	Respi	ratory protection:	concer in the contac	ntration of et air, use a t and if the c	I usage and ventilatio hyl alcohol exceeds occ self-contained breathi oxygen content of the ai ask with filter A (EN 148	cupational exposure ing apparatus. For ir is greater than 18 %	limits short
8.2.2.4.	Thern	nal hazards:	No the	rmal hazard	s known.		
8.2.3.	Enviro	onmental exposure contro	ols				
		ance/mixture related ures to prevent exposure	: See Se	ction 6			
	Struct expos	tural measures to prevent sure:	t Use m	odern equip	ment.		
	-	nisational measures to nt exposure:	Adapt workpl	•	ocess to the required w	orking conditions of	the
	Techr expos	nical measures to prevent sure:	See Se	ction 6			

SECTI	ON 9. Physical and chemical prope	rties				
9.1	Information on basic physical and	Information on basic physical and chemical properties				
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	colourless	No information available			
	Odour/odour threshold:	ethanol like/no information available	No information available			
	Melting point / freezing point:	No information available	No information available			



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Trading name:		HISTANOL 100						
Product code:	H100-X**	Revision date:	05 Dec 2022	Version:	6			

	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	lower: 3.3 Vol % upper: 19 Vol %	No information available
	Flash point:	13 °C	No information available
	Auto-ignition temperature:	363 ℃	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	in water completely miscible	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	0.79 – 0.7921 (20°C)	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2	Other information		
	Explosive properties: the vapours f	rom ethyl alcohol form an expl	osive mixture with air

SECTI	ON 10. Stability and reactivity	
10.1	Reactivity:	See Section 10.5.
10.2	Chemical stability:	Stable within normal temperature and general work conditions.
10.3	Possibility of hazardous reactions:	See Section 10.5.
10.4	Conditions to avoid:	Keep away from heat, sparks, open flames, strong heating and ignition sources. No smoking.
10.5	Incompatible materials:	Strong oxidizing agents (inorganic strong acid, nitric acid, perchlorates, peroxy compounds, perchloric acid, permanganates etc.), alkali metals, alkali earth metals.
10.6	Hazardous decomposition products:	Carbon monoxide and carbon dioxide.

SECTIO	SECTION 11. Toxicological information							
11.1	11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008							
	Acute toxicity:							
Route o exposur		Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results		



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							Page 9	0117
Trading name:				HISTA	NOL 100			
roduct code: pral: permal: halation: Specific ta pral: permal: halation: Aspiration Irritation a kin orrosion/irritation: erious eye amage/irritation erious eye amage/irritation Sensitization kin sensitization: espiratory sensitiz Symptoms pral exposure: permal exposure: halation exposure: permal exposure:	H100-X**		Revisio	on date:	05 Dec 2	.022	Versior	n: 6
Oral:	-	rat (ethano		LD ₅₀	0	-		60 mg/kg
Dermal:	-	rabbit (etha	-	LD ₅₀	-	-		0.000 mg/l
Inhalation:	-	rat (ethano	ol)	LC ₅₀)	4 h	>8	.000 mg/l
Specific t	arget organ to	oxicity – single e	vnosure					
opeenie a		Specific effects	.xposure	. (310132)	Target orgai	n	No	te
Oral:		ation available		No info	ormation avail		-	
Dermal:		ation available			ormation avail		_	
Inhalation:		ation available			ormation avail		_	
Aspiration	n hazard:		No inf	ormation a	available.			
:								
Irritation	and corrosion							
	Exp	osure time	Sp	oecies	Evaluation	Method	N	ote
Skin corrosion/irritatior	-		-		-	-	-	
Serious eye damage/irritation	-		-		-	-	-	
Consitiont	ion							
	-	o information a	vailablo					
		o information a						
Respiratory sensiti			valiable.					
Symptom	s related to th	ne physical, che	mical an	d toxicoloo	nical character	istics		
Oral exposure:	Absorpt unconsc	ion of great iousness and al g may occur. Re	quant cohol pc	ities may pisoning. In	cause dizz	ziness, dru wing great c		ausea and
Dermal exposure:	After pr cracking	olonged or re of skin.	peated	exposure s	symptoms ma	y include:	defatting, d	ryness and
Inhalation exposur	e: Inhalatic membra	on of great quan ines.	itities ma	ay cause diz	zziness, eupho	ria and mild	irritation of	the mucou
Eye exposure:	May cau	ise irritation and	d rednes	S.				
Reneated	dose toxicity	(subacute, subo	-hronic -	chronic)				
Nepealeu		Exposure		a.			•	
	Dose	time	Spe	ecies	Method	Evaluat	ion N	lote



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Trading name:		HISTA	NOL 100	5	
Product code:	H100-X**	Revision date:	05 Dec 2022	Version:	6

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 effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	-



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Trading name:		DL 100			
Product code:	H100-X**	Revision date:	05 Dec 2022	Version:	6

	Carcinogenicity: Ba	ased on available data, the classification criteria are not met.				
	Mutagenicity <i>in vitro</i> : Ba	Based on available data, the classification criteria are not met.				
	Genotoxicity: Ba	ased on available data, the classification criteria are not met.				
	Mutagenicity <i>in vivo</i> : Ba	ased on available data, the classification criteria are not met.				
	Germ cell mutagenicity: Ba	ased on available data, the classification criteria are not met.				
	Reproductive toxicity: Ba	ased on available data, the classification criteria are not met.				
	Summary of evaluation of the CMR properties:	Based on available data, the classification criteria are not met.				
11.2	Information on other hazards:					
11.2.1.	Endocrine disrupting properties:					
	Based on available data, does not contain endocrine disruptors.					
11.2.2.	Other information:					

SECTION 12. Ecologie	SECTION 12. Ecological information									
12.1 Toxicity										
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC ₅₀	96 hours	golden orf	No information available	8.140 mg/l /48 h (ethanol)	-				
Crustacea:	EC ₅₀	48 hours	daphnia magna	No information available	7.800 mg/l (ethanol)	-				
Algae/aquatic plants	IC ₅₀	4 days	algae	No information available	5.000 mg/l / 7d (ethanol)	-				
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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	1						Page 12 01 1	1
Trading name	:			HIST	ANOL 100			
Product code	: F	H100-X**		Revision date:	05 Dec 20)22	Version:	6
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No informa available	ation -	
Algae/aquatic	plants	IC ₅₀	72 hours	No information available	No information available	No informa available	ation _	
Other organisn	ns	-	-	-	-	-	-	
12.2								
		and degradat	oility					
Abioti		adation						
	De	egradation h	alt-lives	Method	Evaluatio		Note	
Marine water	No i	nformation a	wailable	No information available	No informatio available	n -		
Fresh water	No i	nformation a	ivailable	No information available	No informatio available	n -		
Air	No information available		No information available	No information available		-		
Soil	oil No information available		No information available	No informatio available	-			
Biode	gradati	ion						
% Degradati	-	Time (d	days)	Method	Evaluatio	n	Note	
No information			formation	No information available	No informatio available	n No	No information available	
	1					:		
		tive potentia						
		er partition c						
Value Log Pow: ~	Cor -	ncentration	рН 	°C Method	Evalu		Note	es no
0.32							pioaccumulate	
Biocor Value	ncentra	ation factor (I Specie		Method	Evaluat	ion	Note	
value		Specie	د.	Methou	∟vaiudt		NOLE	



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Tradir	ng name:						HISTAN	NOL 10	0				
Produ	ct code:	H100	I-X**		Revis	ion da	ate:	05 D	ec 202	22		Version:	6
BCF: 0.	66	No availa	inform ble	ation	No infor available		on	No info availab		on	-		
	Chronic	ecotoxici	tv										
	Value		Dose	-	osure ime	Spe	ecies	Meth	nod	Eval	uation	Note	<u>.</u>
Chroni	c toxicity c	on fish	LC ₅₀	No infor availa	mation able	No inforr availa	mation able	No inform availab		No inforn availa	nation ble	-	
	c toxicity c cea (<i>Daphr</i>		EC ₅₀	No infor availa	mation able	No inforr availa	mation able	No inform availab		No inforn availa	nation ble	-	
12.4	Mobility	vin coil											
12.4	-		ed distributi	on in e	nvironme	ental c	ompart	ments:					
		rmation a											
	Surface												
	Valu	e	°C	C	oncentrat	tion		Metho	d			Note	
	No informa available		o formation ⁄ailable		informat ailable	ion	No inf availal	ormation ble	n	-			
	Adsorpt	ion / deso	orption										
Transp	ort		oefficient s constant	lc	og Kow	E١	/aporati	on rate		Methoo	b	Note	
Soil-wa	ater	No i available	nformation	No ir availa	nformatio able		o inform ailable	nation	No ir availa	nformat able	tion	-	
Water-	-air	No i available	nformation	No ir availa	nformatio able		o inform ailable	nation	No ir availa	nformat able	tion	-	
Soil-ai	r	No i available	nformation e	No ir availa	nformatio able		o inform 'ailable	nation	No ir availa	nformat able	tion	-	
12.5			d vPvB asses										
	Based o	n availabl	e data, the p	produc	t does no	t cont	ain any	PBT or v	PvB su	bstance	es.		



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Trading name:	HISTANOL 100					
Product code:	H100-X**	Revision date:	05 Dec 2022	Version:	6	

12.6.	Endocrine disrupting propert	es
	Based on available data, does	not contain endocrine disruptors.
12.7.	Other adverse effects	
	Do not let the product or its r	esidues reach sewer system, waterways and soil.
SECTIO	N 13. Disposal consideration	s
13.1	Waste treatment methods	
13.1.1.	Product/Packaging disposa	
	Submit for disposal to the least of the second seco	egal person authorized by the Ministry of Environmental and Nature
	Protection.	
13.1.2.	Waste codes/waste designa	ations according to Law.
13.1.2.		idual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevant	information:
	No information available	
13.1.4.	Sewage disposal – relevant	information:
	Waste must not be dispose	d of into the sewage system.
13.1.5.	Other disposal recommend	
	authorized by the ministry	duct'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 ctors authorized by the ministry in charge. Unused product residues may be
	burnt.	······································
13.1.6.	Relevant Community provis	ions:
	Disposal must be made acc	ording to official regulations.
SECTIO	N 14 TRANSPORT INFORMA	TION
	Transporting/shipment by roa	ad (ADR)
UN nun	nber:	1170
UN pro	per shipping name:	Ethanol solution
Transpo	ort hazard class(es):	3
Packing	l group:	II



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Trading name:		HISTANOL 100					
Product code:	H100-X**	Revision date:	05 Dec 2022	Version:	6		
	:	1	1				
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transporti	ng/shipment by rail (RI	D)					
UN number:		1170					
UN proper shipping	g name:	Ethanol solution					
Transport hazard cl	ass(es):	3					
Packing group:		II					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Inland wat	erway transport (ADN)						
UN number:		1170					
UN proper shipping	g name:	Ethanol solution					
Transport hazard cl	ass(es):	3					
Packing group:							
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transporti	ng/shipment by sea (IN	/IDG)					
UN number:		1170					
UN proper shipping	g name:	Ethanol solution					
Transport hazard cl	ass(es):	3					
Packing group:		II					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transport in bulk a of MARPOL 73/78 a	according to Annex II and the IBC code:	-					
Transporti	ng/shipment by air (IC/	40-TI/IATA-DGR)					
UN number:		1170					
UN proper shipping	g name:	Ethanol solution					
Transport hazard cl	ass(es):	3					
Packing group:		II					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Further information	n: -						

SECTION 15. Regulatory information



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Trading name:		HISTANC	DL 100		
Product code:	H100-X**	Revision date:	05 Dec 2022	Version:	6

	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work:
	Other EO regulations.	 of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). REACH Restrictions on the manufacturing, placing on the market and use of certain
	Information according 19 guideline)	dangerous substances, mixtures and articles (Annex XVII); 99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessme	ent
	None	

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



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Trading name:			HISTA	NOL 100			
Produ	ct code:	H100-X**	Revision date:	05 Dec 2022	Version:	6	
16.2	Abbrevia	tions and acronyms:	DNEL:Derived No-Effect LLC50:Lethal concentrationLD50:Lethal dose, 50 percPBT:Persistent, Bioaccur	t Concerning the Internations of Code for Dangerous Gonsport Association d System of Classification a of Existing Commercial Cl Service (division of the Amevel (UK REACH) n, 50 percent cent	onal Carriage of Dang ods and Labelling of Chem hemical Substances	gerous	
16.3.	Key litera source of	ture references and data:	Manufacturer's MSDS file.				
16.4.	Classifica 1272/200	· · · · · · · · · · · · · · · · · · ·	used to derive the classificati	on for mixture accordin	g to Regulation (EC	.)	
Classifi	ication		Classification procedure				
-			-				
16.5.	Relevant	H statements (numb	er and full text)				
	H: 2	225	Highly flammable liquid and	d vapor.			
16.6.	Training a	advice:	-				
16.7.	Further ir	nformation:	** "X" in the product code r the product) We are not responsible for instructions for use or impro material safety data sheet.	consequences in case of	f failure to comply v		

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:		HISTAN	OL 95		
Product code:	H95-X**	Revision date:	05 Dec 2022	Version:	6

1.1	Product identifier					
	Trading name:	HISTANOL	95			
	Chemical name:	Ethyl alcoh	ol			
	Catalogue number:	H95-X**				
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against		
	Uses:		For use	in histocytology and cytology sample processing.		
	Uses advised against:		Only the comsum	e identified uses are advised. Unsuitable for human nption.		
	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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	e-mail of competent person:		msds@biognost.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 of	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	text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	HISTANOL 95			
	Identification number:	-			
	Authorization number:	-			



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	Hazard pictograms:	GHS02	
	Signal word:	Danger	
	Hazard statements:	H225 Highly flammable liquid and vapor.	
	Precautionary statements:	 P210 Keep away from heat, hot sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P403+P235 Store in a well-ventilated place. Keep cool. 	
	Supplemetal hazard information (EU):	-	
2.3	Other hazards		
	The product has no other know	n specific hazards for human or environment.	
	Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.		
	Endocrine disrupting property:	Based on available data, does not contain endocrine disruptors.	

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- 0147	~ 95%	ethanol	Flam. Liq. 2; H225			

SECTI	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:	Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificial respiration. In case of complaints call a physician.			
	Following skin contact:	Remove the contaminated clothes. Wash the skin surface under plenty of running water. Seek medical assistance if the symptoms of irritation remain.			



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	Following eye contact:	In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for at least 10 minutes). If the symptoms remain, immediately call in ophthalmologist.		
	Following ingestion:	Place the victim in a comfortable position. Rinse the mouth with clean water. If the victim is conscious induce vomiting.Do not give the victim anything orally, and do not induce vomiting if the victim is unconscious or suffers from convulsions.		
	Self-protection of the first aider:	-		
4.2	Most important symptoms and effects, both acute and delayed			
	Following inhalation:	Inhalation of larger quantities may affect the central nervous system.		
	Following skin contact:	Prolonged or repeated dermal contact may cause the defatting and dryness of the skin.		
	Following eye contact:	May irritate the eyes.		
	Following ingestion:	Ingestion of larger quantities may affect the central nervous system.		
4.3	Indication of any immediate medical attention and special treatment needed If larger quantities have entered the body, obtain medical treatment (gastric lavage, activated carbon).			

SECTIO	ON 5. Firefighting measures		
5.1	Extinguishing media		
	Suitable extinguishing media:	Extinguishing powder, alcohol-resistant foam, water, carbon-dioxide.	
	Unsuitable extinguishing media:	Water with full jet.	
5.2	Special hazards arising from the su	ibstance or mixture	
	Hazardous combustion products:	Highly flammable liquid and vapour. In case of fire, smoke, and other combustion products (carbon monoxide, carbon dioxide) may be formed, the inhalation of such combustion products can have serious adverse effects on health. Vapours may form an explosive mix with air. Vapours may be ignited by open flames, sparks, electrical equipment, or static charge. Vapours may travel to great distances, ignite in contact with ignition sources and flash back to the primer source (container). Vapours of ethyl alcohol mix greatly with air and may form an explosive mixture. Air containing 3.3 – 19 % ethyl alcohol vapours may explode in contact with ignition sources. Diluting the mixture with large amounts of water results in the loss of its flammability (around 10 % concentration of ethyl alcohol).	
5.3	Advice for firefighters		
	Wear full protective clothing and self-contained breathing apparatus. Cool the fire affected containers with water spray. Use water spray to dissipate alcohol vapours.		
5.4	Additional information		
	-		



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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.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	ventilation. Vapours may accur	nd clothing and inhaling gases, vapours and aerosols. Ensure adequate mulate at floor level in low and confined spaces. Remove all heat, ignition chines. Ignition spark arrestor must not be operated in the danger area. Use the risk of slipping.			
6.2	Environmental precautions:				
	resulting waste according to the applicable environmental regulations. Do e resulting waste to enter sewers/soil/surface or ground water. Notify the dance with local law in the case of environmental pollution immediately.				
6.3	Methods and material for cont	ainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Cleaning up:	Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. During the collection, placement, disposal of the waste, wear appropriate individual protective equipment. Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution).			
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).			
6.4	Reference to other sections				
	See Section 7 for information on safe handling.				
	See Section 8 for information on personal protection equipment.				
	See Section 13 for disposal information.				

SECTIO	SECTION 7. Handling and storage		
7.1	Precautions for safe handling		
7.1.1.	Protection measures		



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Tradiı	ng name:			HISTA	NOL 95				
Produ	uct code:	H95-X**	Revision	date:	05 Dec 2022	Version:	6		
	Measures	to prevent fire:			Use in well ventilat away from heat, he flames and other smoking. Use no equipment.	ot surfaces, sparks r ignition source	, open s. No		
	Measures	to prevent aerosol	and dust generatio	n:	Ensure adequate ve	entilation.			
	Measures	to protect the envir	onment:		Prevent spilling into the sewage system and waterways. Protect against electrostatic charges.				
	Other me	asures:							
7.1.2.	Advice or	n general occupatior	al hygiene:						
	Do not ea	at, drink or smoke in	the workspace. Th	oroughly v	wash hands after work a	nd before eating.			
7.2	2 Conditions for safe storage, including any incomp			patibilities	5				
	Technical measures and storage conditions:			away fr unopen from c	Store in a well-ventilated place, protected from sunlight away from sources of heat and ignition, in its original unopened and hermetically sealed packaging, away from oxidizing agents, food, feed and articles of consumption.				
	Packaging	g materials:		Manufa	cturer's original packag	ing.			
	Requirem	ents for storage roo	ms and vessels:	Keep av tightly d	vay from food and drinl closed.	<. Keep the contain	ners		
	Advices fo	or storage equipmer	nt:	be resis directly	he storage must be made of hard material; floors m e resistant to chemicals. There must be no drain t irectly leads into sewage system. Secure pro entilation.				
	Further in	formation on storag	e conditions:	and do	place the unused mate not use empty conta als. Do not store with inc 10).	ainers for storing	other		
7.3	Specific e	nd use(s)							
	Recomme	endations:		-					
	Industrial	sector specific solut	ions:	-					

SECTION 8. Exposure controls/personal protection								
8.1 Control parameters								
Substance	CAS No		exposure limit t term values	Biological limit values				
		ppm	mg/m ³	-				
Ethanol	64-17-5	1000/-	1900/-	-				
Substance name: -								



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Trading na	me:					HIS	FANOL 95		***		
Product co	de:	H95-X**	r		Revisio	on date:	05 Dec 2022		Version:	6	
							1				
EC No:		-	CAS No	:	-						
DNEL											
					Inc	lustrial		1			
Route of		Acu			Acute .		Chronic		Chronic		
exposure:		effect	local		ct systemic		effect local		effect systemic		
Oral		- 1900 mg	/m ³	-		-		-			
Inhalation		(ethanol)		-		- 380 mg/m ³ (ethanol)					
Dermal		-		-		- 343 mg/kg (ethanol)					
Dermal - - 343 mg/kg (ethanol) Critical physical parameters: solubility, flammability, corrosivity: - - Consumer Route of exposure: Acute Acute Chronic effect local effect systemic effect local effect systemic											
					Co	nsumer					
Route of		Ac	cute		Acute		Chronic		Chronic		
exposure:		effec	t local	effe	ct systemic	5	effect local	e	effect systemic		
Oral		-		-		-		87 mg/k	kg bw/day (eth	anol)	
Inhalation		950 m (ethan	-	-		-		114 mg,	/m ³ (ethanol)		
Dermal		-		-		-		206 mg,	/kg (ethanol)		
PNEC											
Environmen	tal prote	ection targ	get			PNEC					
Fresh water						0.96 mg/l (ethanol)					
Freshwater s	sedimen	ts				3.6 mg/kg (ethanol)					
Marine wate	er					0.79 mg/l (ethanol)					
Marine sedi	ments					2.9 mg/kg (ethanol)					
Food chain						380-720	mg/kg (ethanol)				
Microorgani	isms in s	ewage tre	eatment			580 mg/	(ethanol)				
Soil (agricul	tural)					0.63 mg/	'kg (ethanol)				
Air						no information available					
8.2	Exposu	re control	s								
8.2.1.	Approp	oriate eng	ineering	control	s						
		nce/mixtu : exposure				concentr concentr existing	of a hazardous m ation limit it is the ation levels down t scientific and techr us substance poses n	e employ o a minin nological	er's duty to l num achievabl means, where	keep e by	
	Structur exposur	ral measu re:	res to pr	event		In accord	lance with Section 7.				



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Trading name:		HISTANOL 95							
5									
Product	code:	H95-X**	Revisi	on date:	05 Dec 2022	Version:	6		
	Orgai expos	nisational measures to pre sure:	vent	Organization of work in order to reduce other worker's influence during work process.					
	Techr	Technical measures to prevent exposure:							
				Provide ap	parkling ventilation syst ppropriate personal prot d eye-wash station.		ty		
8.2.2.	Perso	nal protection equipment		1					
8.2.2.1.	Eye a	nd face protection:	•	se appropriate, chemical-proof protective glasses/face shield (El O 16321-1:2022, EN 166).					
8.2.2.2.	Skin p	protection							
	Hand	protection:	propriate, c	hemical-resistant protec	tive gloves (EN 374).				
	Other	skin protection:	Use ap	propriate p	rotective clothing.				
8.2.2.3.	Respi	ratory protection:	concer in the contac	ntration of e air, use a t and if the o	I usage and ventilatio thyl alcohol exceeds occ self-contained breathi oxygen content of the ai ask with filter A (EN 148	cupational exposure lin ng apparatus. For sh r is greater than 18 %, u	nits Iort		
8.2.2.4.	Thern	nal hazards:	No the	ermal hazard	ls known.				
8.2.3.	Enviro	onmental exposure contro	ls						
		ance/mixture related ures to prevent exposure:	See Se	ction 6					
	Struct expos	tural measures to prevent sure:	Use mo	Use modern equipment.					
	-	nisational measures to nt exposure:	Adapt the work process to the required working conditions of t workplace.						
	Techr expos	nical measures to prevent sure:	See Se	ction 6					

SECTI	SECTION 9. Physical and chemical properties						
9.1	Information on basic physical and	chemical properties					
	Value Method						
	Physical state:	liquid	No information available				
	Colour:	colourless	No information available				
	Odour/odour threshold:	ethanol like/no information available	No information available				
	Melting point / freezing point:	No information available	No information available				



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	Boiling point or initial boiling point and boiling range:	No information available	No information available		
	Flammability:	No information available	No information available		
	Lower and upper explosion limit:	lower: 3.3 Vol % upper: 19 Vol %	No information available		
	Flash point:	13 °C	No information available		
	Auto-ignition temperature:	No information available	No information available		
	Decomposition temperature:	No information available	No information available		
	pH:	No information available	No information available		
	Kinematic viscosity:	No information available	No information available		
	Solubility:	in water completely miscible	No information available		
	Partition coefficient n- octanol/water (log value):	No information available	No information available		
	Vapour pressure:	No information available	No information available		
	Density and/or relative density:	~ 0.805 (20°C)	No information available		
	Relative vapour density:	No information available	No information available		
	Particle characteristics:	No information available	No information available		
9.2	Other information				
	Explosive properties: the vapours f	rom ethyl alcohol form an expl	osive mixture with air		

SECTI	SECTION 10. Stability and reactivity					
10.1	Reactivity:	See Section 10.5.				
10.2	Chemical stability:	Stable within normal temperature and general work conditions.				
10.3	Possibility of hazardous reactions:	See Section 10.5.				
10.4	Conditions to avoid:	Keep away from heat, sparks, open flames, strong heating and ignition sources. No smoking.				
10.5	Incompatible materials:	Strong oxidizing agents (inorganic strong acid, nitric acid, perchlorates, peroxy compounds, perchloric acid, permanganates etc.), alkali metals, alkali earth metals.				
10.6	Hazardous decomposition products:	Carbon monoxide and carbon dioxide.				

SECTIO	SECTION 11. Toxicological information							
11.1	1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008							
	Acute toxicity:							
Route o exposur		Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results		



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Trading name:				HIST	ANOL 95				
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Oral:	-	rat (ethanol)		LD ₅₀)	-	7	7.060 m	ng/kg
Dermal:	-	rabbit (ethanol	l)	LD ₅₀)	-	>	20.000) mg/l
Inhalation:	-	rat (ethanol)		LC ₅₀	I	4 h		>8.000	mg/l
Coocific to	waat araan ta	vicity cingle eve							
Specific ta		xicity – single exp	osure (STC	JT SE):					
<u> </u>		Specific effects			Target organ			Vote	
Oral:		tion available			ormation availa		-		
Dermal:		tion available			ormation availa		-		
Inhalation:	No informa	tion available	ſ	No into	ormation availa	able	-		
Aspiratior	hazard:	Ν	No informa	ation a	vailable.				
Irritation	and corrosion								
i	Expo	osure time	Species	s	Evaluation	Method		Note	
Skin corrosion/irritatior	- :	-			-	-	-		
Serious eye	-	-			-	-	-		
damage/irritation									
Sensitizat	ion								
Skin sensitization:	1	o information avai	lable.						
Respiratory sensiti		o information avai							
Symptom	s related to th	e physical, chemic	cal and to	kicolog	ical characteri	stics			
Oral exposure:	Absorpti unconsci	on of great of ousness and alcol	quantities nol poison	may ing. In	cause dizz case of swallo	ziness, dru wing great o	•	nause	horia, a and
Dermal exposure:	After pro cracking	olonged or repea of skin.	ated expo	sure s	symptoms ma	y include:	defatting,	dryne	ss an
Inhalation exposur	e: Inhalatio membrai	n of great quantiti nes.	es may ca	use diz	ziness, eupho	ria and mild	irritation o	of the r	nucou
Eye exposure:	May caus	se irritation and re	edness.						
Donastad	doso tovicity	(subacute, subchro	onic chro	nic)					
переагео	uuse iuxicity	Exposure		-					
	Dose	time	Species		Method	Evaluat	ion	Note	



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Trading name:	HISTANOL 95								
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		No	No	No					

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 effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	_



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	CMR effects (carcinogenicity; mutagenicit	y; re	productive toxicity)		
	Carcinogenicity:	Based on available data, the classification criteria are not met.			
	Mutagenicity in vitro:	Bas	ed on available data, the classification criteria are not met.		
	Genotoxicity:	Bas	ed on available data, the classification criteria are not met.		
	Mutagenicity in vivo:	Bas	ed on available data, the classification criteria are not met.		
	Germ cell mutagenicity:	Bas	ed on available data, the classification criteria are not met.		
	Reproductive toxicity: Based on available data, the classification criteria are not				
	Summary of evaluation of the CN properties:	ЛR	Based on available data, the classification criteria are not met.		
11.2	Information on other hazards:				
11.2.1.	Endocrine disrupting properties:				
	Based on available data, does not conta endocrine disruptors.	ain			
11.2.2.	Other information:				
	-				

SECTION 12. Ecological information								
12.1 Toxicity								
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	golden orf	No information available	8.140 mg/l /48 h (ethanol)	-		
Crustacea:	EC ₅₀	48 hours	daphnia magna	No information available	7.800 mg/l (ethanol)	-		
Algae/aquatic plants	IC ₅₀	4 days	algae	No information available	5.000 mg/l / 7d (ethanol)	-		
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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Trading name	•				HIST	ANOL 95					
Product code:		H95-X**		R	Revision date:	05 Dec 20	22	Vers	ion:	6	
Crustacea:		EC ₅₀	48 hours		No information available	No information available	No infor available		-		
Algae/aquatic p	lants	IC ₅₀	72 hours		No information available	No information available	No infor available		-		
Other organism	IS	-	-		-	-	-		-		
12.2 Persist	ence	and degradal	pility								
		radation	,								
i		egradation h	alf-lives		Method	Evaluatio	n	١	lote		
Marine water	No	information a	vailable		information ailable	No information available	n -				
Fresh water	water No information available		wailable	No information available		No information available		-			
Air	No	information a	wailable	No information available		No information available		-			
Soil	No	information a	ivailable		information ailable	No information available	n -	-			
Biodeg											
% Degradatio		Time (NI -	Method	Evaluatio			Note		
No information available		No in available	formation		information ailable	No information available		No informa available	ation		
		ative potentia									
-		ter partition c ncentration		log H °C	1	Г. rol	ation		Nata		
Value Log Pow: ~ 0.32	-	ncentration	рН 	_	Method -	Evalu	ation	The pro bioaccu	Note duct doe mulate	es not	
1	centr	ation factor (Mathad	F	<u></u>		Note		
Value		Specie	52		Method	Evaluati			Note		



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Tradir	ng name:						HISTA	NOL 95				-	
Produ	ct code:	H95-	-X**		Revisi	ion da	ate:	05 D	ec 202	22		Version:	6
BCF: 0.	.66	No availa	inform able	ation	No infor available		n	No info availab		on	-		
	Chronic	ecotoxic	i+\ <i>/</i>					1			1		
	Chronic		ity	Evo	osure								
	Value		Dose	-	ime	Spe	ecies	Meth	nod	Evalu	uation	Note	!
Chroni	ic toxicity	on fish	LC ₅₀	No infor availa	mation	No inforr availa	mation able	No inform availab		No inform availat		-	
	ic toxicity cea (<i>Daph</i>		EC ₅₀	No infor availa	mation	No inforr availa	mation able	No inform availab		No inform availat		-	
12.4	Mobility	y in soil											
		-	ted distributi	on in e	environme	ental c	compart	ments:					
	No info	rmation a	vailable										
	Surface	tension:											
	Valu		°C	C	oncentrat	ion		Metho	d			Note	
	No informa availabl		o Iformation vailable	_	informati ailable	ion	No inf availal	ormation ole	n	-			
	Adsorp	tion / des	orption										
Transp	oort	-	oefficient s constant	lc	og Kow	E١	/aporati	on rate		Method		Note	
Soil-wa	ater	No i available	nformation e	No ir availa	nformation able		o inform ailable	nation	No ir avail	nformati able	ion	-	
Water-	-air	No i available	information e	No ir availa	nformation able		o inform ailable	nation	No ir avail	nformati able	ion	-	
Soil-ai	r	No i available	information	No ir availa	nformation able		o inform ailable	nation	No ir avail	nformati able	ion	-	
						:			•				
12.5	Results	of PBT an	nd vPvB asses	ssment									
	Based c	on availab	le data, the p	produc	t does no	t cont	ain any	PBT or v	PvB su	Ibstance	S.		



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12.6.	Endocrine disrupting properties	3				
	Based on available data, does not contain endocrine disruptors.					
	1					
12.7.	Other adverse effects					
	Do not let the product or its res	idues reach sewer system, waterways and soil.				
	N 13. Disposal considerations					
13.1	Waste treatment methods					
13.1.1.	Product/Packaging disposali					
15.1.1.	Product/Packaging disposal:	al names authorized by the Ministry of Environmental and Native				
	Protection.	al person authorized by the Ministry of Environmental and Nature				
13.1.2.	Waste codes/waste designation	ons according to Law:				
	Packaging that contains residual hazardous substances or is contaminated with hazardous substances					
13.1.3.	Waste treatment – relevant in	formation:				
	No information available					
	÷					
13.1.4.	Sewage disposal – relevant in	formation:				
	Waste must not be disposed	of into the sewage system.				
13.1.5.	Other disposal recommendat					
	authorized by the ministry in	ct's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. Submit ors authorized by the ministry in charge. Unused product residues may be				
13.1.6.	Relevant Community provisio	ns:				
	Disposal must be made accor	ding to official regulations.				
SECTIO	N 14 TRANSPORT INFORMATI	ON				
	Transporting/shipment by road	(ADR)				
UN nun	nber:	1170				
UN pro	per shipping name:	Ethanol solution				
Transpo	ort hazard class(es):	3				
Packing	l group:	II				



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Trading name:	HISTANOL 95				
Product code:	H95-X**	Revision date:	05 Dec 2022	Version:	6
Environmentally ha	zardous:	-			
Special precautions	for user:	-			
Transporti	ng/shipment by rail (RI	D)			
UN number:		1170			
UN proper shipping	g name:	Ethanol solution			
Transport hazard cl	ass(es):	3			
Packing group:		11			
Environmentally ha	zardous:	-			
Special precautions	for user:	-			
Inland wat	erway transport (ADN)				
UN number:		1170			
UN proper shipping	g name:	Ethanol solution			
Transport hazard cl	ass(es):	3			
Packing group:		11			
Environmentally ha	zardous:	-			
Special precautions	for user:	-			
Transporti	ng/shipment by sea (IN	/IDG)			
UN number:		1170			
UN proper shipping	g name:	Ethanol solution			
Transport hazard cl	ass(es):	3			
Packing group:		11			
Environmentally ha		-			
Special precautions	for user:	-			
Transport in bulk a of MARPOL 73/78 a	according to Annex II and the IBC code:	-			
Transporti	ng/shipment by air (IC/	40-TI/IATA-DGR)			
UN number:		1170			
UN proper shipping	g name:	Ethanol solution			
Transport hazard cl	ass(es):	3			
Packing group:		II			
Environmentally ha	zardous:	-			
Special precautions	for user:	-			
Further information	n: –				

SECTION 15. Regulatory information



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Trading name:	HISTANOL 95					
Product code:	H95-X**	Revision date:	05 Dec 2022	Version:	6	

	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
		Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004
	Other Ell regulations:	on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety
	Other EU regulations:	of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;
		COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessme	ent
	None	

SECTION 16. Other information	
16.1 Indication of changes:	-



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Tradin	ng name:			HISTA	NOL 95		
Produ	ict code:	H95-X**		Revision date:	05 Dec 2022	Version:	6
16.2	Abbrevi	ations and acronyms	ADR: Accord relatif au transport international des marchandises dangereuses proute (European Agreement Concerning the International Carriage of Dangero Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			gerous	
16.3.	Key liter source c	rature references and of data: Manufacturer's MSDS file.					
16.4.		ation and procedure 108 (CLP)	used to	derive the classificati	on for mixture accordin	g to Regulation (EC	.)
Classifi	ication		Classifi	cation procedure			
-			-				
16.5.	Relevan	t H statements (num	ber and	full text)			
	H:	225	Highly	Highly flammable liquid and vapor.			
16.6.	Training	advice:	-				
16.7.	Further	information:	the pro We are instruc	oduct) not responsible for a	narks different volumes consequences in case o oper use of the product	f failure to comply v	-

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:		HEMATO	XYLIN G2		
Product code:	HEMG2-OT-X**	Revision date:	03 April 2023	Version:	8

SECTI	ON 1 IDENTIFICATION	OF THE SUBS	TANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING			
1.1.	Product identifier	Product identifier					
	Trading name:	HEMATOX	'LIN G2				
	Chemical name: -						
	Catalogue number:	HEMG2-OT					
1.2.	2. Relevant identified uses of the substance or mixture and uses advised against						
	Uses:		Hematoxy	lin according to Gill for nuclear staining.			
	Uses advised against:		Only the i	dentified uses are advised.			
Reason why uses advised against: device, registered at the Age		ict is intended for use only as an <i>in vitro</i> diagnostic medical gistered at the Agency for Medicinal Products and Medical nd there is no reason to use it for other purposes					
1.3.	Details of the supplier	of the safety	data sheet				
	Supplier:	Bi	BioGnost Ltd.				
	Address:	Ν	Medjugorska 59, Zagreb				
	Telephone number: +		+385 1 2409997				
	Fax no.: +		+385 1 2404039				
	e-mail of competent p	erson: <u>m</u>	msds@biognost.hr				
	National contact: -		-				
1.4.	Emergency telephone	number					
	National Protection an	d Rescue Dir	ectorate:	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) No. 1272/2008 (CLP)				
	Hazard class and category code: Hazard statements*:				
	Acute Tox. 4 H302				
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard	d-statements: see S	ection 16		
2.2.	Label elements				
	Product identification:	HEMATOXYLIN G	2		
	Identification number:	-			
	Authorization no.:	-			



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Trading name:		HEMATO			
Product code:	HEMG2-OT-X**	Revision date:	03 April 2023	Version:	8

	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.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Prop No known endocrine disrupt Results of PBT and vPvB as PBT or a vPvB.	

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 - 45 %	ethylene glycol	Acute Tox. 4, H302			

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



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Trading name:		HEMAT	OXYLIN G2	3	
Product code:	HEMG2-OT-X**	Revision date:	03 April 2023	Version:	8

	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 ai	der:	Treat symptomatically.
4.2.	Most important symptoms a	nd eff	ects, 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:		nt irritation. After short exposure, resorption effects are not likely. Long- n exposure may cause drying, cracking and tingling sensation of skin.
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimate burning sensation. If the symptoms persist, immediately call a phy	
	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the mou 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	medio	cal attention and special treatment needed
	-		

SECTIO	ECTION 5 FIREFIGHTING MEASURES				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the su	ubstance or mixture			
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. 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.				

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:		HEMATOXYLIN G2						
Produ	ict code:	HEMG2-OT-X**	Rev	ision date:	03 April 2023	Version:	8	
	Accident	prevention methods	s: mei	mbers withou	ers of all non-essen t protective equipme on. Do not smoke.	•		
	Emergen	cy procedures:	Mai	rk the area usi	ng proper signs.			
6.1.2.	For emerg	gency responders:						
	Wear pro	tective equipment (see Section 8).					
6.2.	Environm	ental precautions:						
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.							
6.3.	Methods	and material for cor	ntainment and	cleaning up				
6.3.1.	-	covering of drains; procedures: Sand or clay barriers.						
6.3.2.	Cleaning	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste materi 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 involv materials with water.					e material n well :he legal e	
6.3.3.	Other info	ormation:	-					
6.4.	Reference	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	N 7 HANDLING AN STORAGE				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	-			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompat	ibilities			



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	HEMATOXYLIN G2							
8	Version:	03 April 2023	Revision date:	HEMG2-OT-X**	Product code:			
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	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:	-

SECTION 8 E	XPOSUI		TROLS/PER	SONAL	PROTECTION				
8.1. Cont	rol para	l parameters							
Subs	tance		CAS No			Occupational exposure limit values/short term values		ological limit values	
					ppm	mg/m ³			
Ethylene glyco	ol		107-21	-1	20/40	52/104	No info	rmation available	
Substance name:	-								
EC No:	-		CAS No:	-					
DNEL									
					Industrial				
Route of		A	cute		Acute	Chronic		Chronic	
exposure:		effe	ect local	eff	ect systemic	effect local		effect systemic	
Oral		-		-		-		-	
Inhalation -		-		-		35 mg/ kg (ethylene glycol)			
Dermal -		-		-		-		106 mg/kg (ethylene glycol)	
Critical physic	al parar	neters: s	olubility, flai	mmabil	ity, corrosivity:	-			
					Consumer	·			



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							Page 6	01 10			
Trading I	name:				HEMAT	OXYLIN G2					
Product code:		HEMG2-OT-X** Rev		Revisio	evision date: 03 April 202		Version:	8			
				•							
Route of exposure		Acute effect local		Acut		Chronic effect local		onic			
Oral	•	effect local		effect sys	temic	effect local	enects	systemic			
Ulai		-	-			- 7 mg/kg	-				
Inhalatior	ı	-	-			7 mg/kg (ethylene glycol)	-				
Dermal		-	-			-	53 mg/kg (glycol)	ethylene			
PNEC		I				I					
Environm	ental prot	tection target			PNEC						
Fresh wat	er				10 mg/l ((ethylene glycol)					
Freshwate	er sedime	nts			37 mg/kg	g (ethylene glycol)					
Marine wa	ater				1 mg/l (e	thylene glycol)					
Marine se	ediments				3.7 mg/k	g (ethylene glycol)					
Food chai	in				No infor	mation available					
Microorga	anisms in	sewage treatment			199.5 mg/l (ethylene glycol)						
Soil (agric	cultural)				1.53 mg/	'kg (ethylene glycol)					
Air					No infor	mation available					
8.2.	· · ·	Exposure controls									
8.2.1.		eering measures									
	measu				Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.						
	Struct	ural measures to pre ure:	No information available								
	-	ganisational measures to			Organization of work in order to reduce other worker's influence during work process.						
	Techn expos	ical measures to pre ure:	vent		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.						
8.2.2.	Persor	nal protection equip	ment								
8.2.2.1.	Eye an	e and face protection: Safety c visor.			y glasses that stick to face (preventing splashing) (EN 166) or						
8.2.2.2.	Skin p	rotection									
	Hand	protection:	Protective glov Glove r Glove t			ves must be according to standard EN 374. material: nitrile rubber thickness: ≥0.11 mm through time: >480 min					



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Trading name:			HEMATOXYLIN G2						
Product	Product code: HEMG2-OT-X**		ç	Revision date:	03 April 2023	Version:	8		
	Other	skin protection:			nade of natural fibers (noes that cover the en				
8.2.2.3.	Respii	atory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped v filter for organic vapors, type "A" (boiling point >65°C) acording to 14387) used when concentration levels exceed GVI.						
8.2.2.4.	Therm	al hazards:	No information available						
8.2.3.	Enviro	vironmental exposure controls							
		Substance/mixture related measures to prevent exposure:		See Section 6					
	Struct	ural measures to p	revent						

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 cher	mical properties	
		Value	Method
	Physical state:	liquid	No information available
	Color:	dark red	No information available
	Odour/odour threshold:	very mild vinegar odour/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density	No information available	No information available



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Tradi	ng name:	HEMATOXYLIN G2							
Product code:		HEMG2-OT-X**	Revision date:	03 April 2	2023	Version:	8		
	Relative	vapour density:	No information a	available No i		nformation available			
Particle characteristics:		haracteristics:	No information a	No information available					
9.2.	Other inf	ormation							

SECTIO	SECTION 10 STABILITY AND REACTIVITY				
10.1.	Reactivity:	See subsections 10.3 through 10.5.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.			
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.			
10.5.	Incompatible materials:	Aluminum.			
10.6.	Hazardous decomposition products:	No information available.			

SECTION 11 TOXIC	OLOGICAL INFORM	ATION			
11.1. Information	n on hazard classes as	ulation (EC) No 1272	2/2008		
Acute toxic	ity:				
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	anhydrous (ECHA)	rabbit	LD ₅₀	-	7.712 mg/kg (ethylene glycol)
Dermal exposure:	anhydrous (ECHA)	rat	LD ₅₀	-	>3.500mg/kg (ethylene glycol)
Inhalation exposure:	No information available	-	LC ₅₀	-	-
Specific tar	get organ toxicity – si	ngle exposure	(STOT SE):		
: .	Specif	ic effects	Target	organ	Note
Oral exposure:	No information	available	No information available		-
Dermal exposure:	No information	available	No informatio	-	
Inhalation exposure:	No information	available	ble No information available		-
Respiratory	irritation:	No info	rmation available		
Irritation ar	nd corrosion				
	Exposure time	Species	Evaluation	Method	Note



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Trading name:				HF	ΜΔΤ	OXYLIN G2		i age .	9 of 16
Product code:	Ц	HEMG2-OT-X**		Revision date:			0023	Version:	8
riouuci coue.	I		I.C.		ie.	03 April 2	.025	version.	0
Skin irritation:		-	rabb	it	-	-		Slight irritatio glycol)	n (ethylene
Eye irritation:		24 h	rabb	it	-	-		Slight irritatio glycol)	n (ethylene
Sensitiz	ation								
Dermal exposure		lo information	available						
Inhalation									
exposure:	Ν	lo information	available						
Sympto	ms re	lated to the ph	nysical, chemic	al and tox	icolog	jical characte	ristics		
Oral exposure:		No informati							
Dermal exposure: No information									
Inhalation expos	No informati								
Eye exposure:		Causes serio	us eye damage	9					
					• 、				
Repeate	ed dos	se toxicity (sub		onic, chror	nic)				
		Dose	Exposure time	Species		Method	E١	valuation	Note
Subacute oral	No avai	information lable	No information available	No informat available		No informatio available	n	o information /ailable	-
Subacute dermal	No avai	information lable	No information available	No informat available		No informatio available	n	o information /ailable	-
Subacute inhalation		information lable	No information available	No informat available		No informatio available	n	o information /ailable	-
Subchronic oral		information lable	No information available	No informat available		No informatio available	n	o information /ailable	-
Subchronic dermal		information lable	No information available	No informat available		No informatio available	n	o information /ailable	-
Subchronic inhalation		information lable	No information available	No informat available		No informatio available	n	o information /ailable	-
Chronic oral No information			No information available	No informat available		No informatio available	n	o information /ailable	-



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Trading name:						ΛΔΤΛ	DXYLIN G2	•	uge i	U OT 16
Product code:	ЦЕ	MG2-OT-X*	*	₽∽			03 April 2023		sion:	8
	ΠE			Revision date:		05 April 2025	ver	51011.	U	
Chronic dermal	mal No information available No No No information available available available No No information available available available No		information	No information		-				
Chronic inhalation	No availa	information Ible	No informat available		No informati available	on	No information available	No informa available	ation	-
Spacific	taraat	organ tovicit	v ropost	tod o	vpocuro (S)=\.			
specific	target	organ toxicit	pecific eff		xposure (s			n		Note
Subacute oral	•					Nai	Target organ		_	NOLE
Subacute dermal	tion availation				nformation availa		-			
Subacute inhalati					nformation availa		-			
Subchronic oral		No informa				nformation availa		-		
Subchronic derm	tion availa				-					
						information available		-		
Chronic oral No informatic							nformation availa		_	
Chronic dermal							nformation availa		_	
Chronic inhalation No informatic							nformation availa		-	
		:						1		
CMR eff	ects (ca	arcinogenicity	y, mutage	nicity	, reproduc	tive t	oxicity)			
Carcino	genicity	/:	Curre	ent s	tudies on t	est ar	nimals did not inc	dicate carcin	ogenio	effects.
Mutage	nicity <i>ii</i>	n-vitro:	Curre	Current <i>in vitro</i> tests did not indicate mutagenic effects.						
Genoto	kicity:		No ii	No information available						
Mutage	nicity <i>ii</i>	n-vivo:	Curre	Current in vivo tests did not indicate mutagenic effects.						
Germ ce	ell muta	agenicity:	No ii	No information available						
Reprodu	uctive t	oxicity:		No toxicity on reproductive organs was determined in reproductive organs.						
Summar	ry of ev	aluation of tl	ne CMR p	rope	rties: -					
11.2. Informa	tion on	other hazard	ds:							
		upting prope		1						
	nown es that	endocrine affect huma	disrupti n health.	ing						
11.2.2. Other in	format	ion:								
_										



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Trading name:		HEMAT	OXYLIN G2		
Product code:	HEMG2-OT-X**	Revision date:	03 April 2023	Version:	8

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

	stence and degradability tic degradation			
1	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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Tradin	ng nam	ne:						н	ЕМАТО	ХҮ	LIN G2		i age i	2 01 10
Produ	-		HEM	G2-OT	-X**		Revi	sion d	ate:	03	3 April 202	23	Version:	8
			1				1							·
12.3.	Bioa	ccumu	ulative	potentia	al									
	Parti	tion c	oefficie	ent: n-o	ctanol	/wate	r (log Ko	ow):						
Valu	Value Concentratio		ation	p⊦	+	°C	Me	ethod		Evalua	ation		Note	
-		No availa		nation	-	-	-	No info availab	ormation le	ו	No inform available	nation	-	
	Bioc	oncen	tration	factor ((BCF)									
	ValueSpeciesNo information availableNoinformation available			Method		Evaluation		Note						
			forma	ation	ion No information available		No information available		No information available					
	Chrc		otoxici	ity Do	se	•	osure	Spe	ecies		Method	Fv	aluation	Note
Chroni			fish	LC ₅₀		No	nme No rmation information		mation	Nc inf		No information		
Chroni crustac		-)	EC ₅₀		No	mation	No	mation	No inf		No inf availa	ormation ole	-
12.4.	Mob	oility in	ı soil											
				ted distr	ibutic	on in e	environm	nental c	compart	mer	nts:			
	No i	nform	ation a	ivailable										
	Surfa	ace ter	nsion:											
	\	/alue		°C		C	oncentra	ition		Μ	lethod		Nc	ote
		rmatio able		o Iformati vailable	on		informa ilable	tion	No inf availat		nation	-		



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

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Trading name:	HEMATOXYLIN G2					
Product code:	HEMG2-OT-X**	Revision date:	03 April 2023	Version:	8	

T	A/D coefficient	les Kerri	F	Mathad	Nata
Transp	Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wa	ter No information available	No information available	No information available	No information available	-
Water-	air No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB ass				
	Based on available data, the	product does not o	contain any PBT or v	PvB substances.	
12.6.	Endocrine disrupting proper				
	No known endocrine disrup	ting properties that	affect the environm	nent.	
	i contra cont				
12.7.	Other adverse effects				
	No adverse effects are expe	cted.			
SECTIO	ON 13 DISPOSAL CONSIDER	TIONS			
13.1.	Waste treatment methods				
13.1.1.	Product/Packaging dispos	al:			
	Submit for disposal to the	legal person autho	rized by the Ministr	y of Environmental	and Nature
	Protection.				
13.1.2.	Waste codes/waste design	ations according to	o Law:		
	No information available				
		t information:			
13.1.3.	Waste treatment – relevar				
13.1.3.	Waste treatment – relevan No information available				
13.1.3.					
13.1.3. 13.1.4.		t information:			



Page 14 of 16 Trading name: **HEMATOXYLIN G2** Product code: HEMG2-OT-X** Revision date: 03 April 2023 Version: 8 13.1.5. Other disposal recommendations: Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. 13.1.6. **Relevant Community provisions:** _ **SECTION 14 TRANSPORT INFORMATION** Transporting/shipment by road (ADR) UN number: Not subject to transport regulations. UN proper shipping name: _ Transport hazard class(es): _ Packing group: _ Environmentally hazardous: _ Special precautions for user: _ Transporting/shipment by rail (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 sea (IMDG) UN number: Not subject to transport regulations. UN proper shipping name: _ Transport hazard class(es): _ Packing group: _ Environmentally hazardous: _



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Trading name:	HEMATOXYLIN G2					
Product code:	HEMG2-OT-X**	Revision date:	03 April 2023	Version:	8	

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: The proc	luct is not subject to classification.

15.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certair dangerous substances, mixtures and articles (Annex XVII);
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act



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Trading name:	HEMATOXYLIN G2					
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15.2.	Chemical safety assessment
	None

SECTIO	SECTION 16 Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)			
Classifie	cation	Classification procedure			
-		-			
16.5.	Relevant H statements (numb	er and full text)			
	H: 302	Harmful if swallowed.			
16.6.	Training advice:	-			
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX:

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EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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Trading name:	BLUING REAGENT					
Product code:	BR-OT-X**	Date of compilation:	23 January 2023	Version: 7		

SECTI	ON 1: Identification of	the substanc	e/mixture a	and of the company/undertaking			
1.1.	Product identifier						
	Trading name:	BLUING RE	BLUING REAGENT				
	Chemical name:	-	-				
	Catalogue number:	BR-OT-X**					
1.2.	Relevant identified use	es of the subs	tance or mi	xture and uses advised against			
	Uses:		For conve	rsion of red hematoxylin stained nuclei to blue.			
	Uses advised against:		Only the i	dentified uses are advised.			
	Reason why uses advis	sed against:	uct is intended for use only as an <i>in vitro</i> diagnostic medical gistered at the Agency for Medicinal Products and Medical nd there is no reason to use it for other purposes				
1.3.	Details of the supplier	Details of the supplier of the safety data sheet					
	Supplier: B		BioGnost Ltd.				
	Address: N		Medjugorska 59, Zagreb				
	Telephone number: +		+385 1 2409997				
	Fax no.: +		+385 1 2404039				
	e-mail of competent p	erson: <u>n</u>	<u>msds@biognost.hr</u>				
	National contact:	-					
1.4.	Emergency telephone	number					
	National Protection ar	nd Rescue Dir	ectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	tion (EC) No 1	272/2008 (CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous subst	ance.	-		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	itements: see S	Section 16		
2.2.	Label elements				
	Product identification:	BLUING REA	GENT		
	Identification number: -				
	Authorization no.:	-			
	Hazard pictograms:	-			



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Trading name:		BLUING	REAGENT	
Product code: BR-OT-X**		Date of compilation:	23 January 2023	Version: 7

Signal wo	rd:	-		
Hazard statements:		-		
Precautionary statements:		-		

	Supplemetal hazard information (EU):
2.3.	Other hazards
	Endocrine Disrupting Properties:
	No known endocrine disrupting properties.

SECTION 3. Co	ECTION 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	ON 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: Following eye contact:		Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.	
			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.	
4.2.	Most important symptoms a	nd eff	ects, both acute and delayed	
	Following inhalation:	No i	nformation available	
	Following skin contact:	No i	information available	
	Following eye contact:	No i	nformation available	
	Following ingestion: No i		information available	
4.3.	Indication of any immediate	liate medical attention and special treatment needed		



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Trading name:	BLUING REAGENT					
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SECTIO	SECTION 5. Firefighting measures			
5.1.	Extinguishing media			
	Suitable extinguishing media: Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media: water jet			
5.2.	Special hazards arising from the substance or mixture			
	Hazardous combustion products: No information available			
5.3.	Advice for firefighters			
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.			
5.4.	Additional information			
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.			

SECTIO	ON 6. Accidental release meas	ures			
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne	1			
	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	ee Section 8).			
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Natio Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



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					Tage 4 01 10			
Trading name:			BLUING REAGENT					
Product code: BR-OT-X**			Date of compilation:	23 January 2023	Version: 7			
6.3.2.	Cleaning	up:	Where possible, the substant material (sand, diatomaceo in tightly closed impermeal ventilated storage rooms un persons authorized by the I Protection. After disposal of materials with water.	us earth, vermiculite). Pla ble containers. Store the ntil disposal. Submit for Ministry of Environmenta	ace the waste material substance in well disposal to the legal al and Nature			
6.3.3.	Other info	ormation:	-					
6.4.	Reference	e to other sections	;					
			on about secure handling. on about personal protective ec	quipment.				

See Section 13 for information about containment.

7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust generation	ion: Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				
	Other measures:	-				
7.1.2.						
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and befo					
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).				



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Trading name:	BLUING REAGENT						
Product code:	BR-OT-X**	Date of compilation:	23 January 2023	Version: 7			

Rec	commendations:	-
Ind	dustrial sector specific solutions:	-

SECTION 8. Exposu	e contr	ols/personal	protec	tion			
8.1. Control para	ameters						
Substance		CAS N	0		•	exposure limit term values	Biological limit values
				ł	ppm	mg/m ³	
-		-			-	-	No information available
Substance - name:							
EC No: -		CAS No:	-				
DNEL		•	1			•	
				Inc	dustrial		
Route of exposure:	ļ	Acute		Acute	e	Chron	nic Chronic
Route of exposure.	effe	ect local	effe	ect sys	temic	effect lo	ocal effect system
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-				-	-	
Critical physical para	meters: s	solubility, flar	nmabilit	ty, cor	rosivity:	-	
	1			Со	nsumer	1	
Route of exposure:	Acute		Acute		Chron		
	ette	ect local	cal effect sy		temic	effect lo	ocal effect system
Oral	-		-		-	-	
Inhalation	-		-			-	
Dermal	-		-			-	-
PNEC					DNIEG		
Environmental protec	tion tar	get			PNEC		
Fresh water Freshwater sediment	<u> </u>				No information available		
				No information available			
Marine water					No information available No information available		
Marine sediments Food chain					mation availabl		
Microorganisms in se	wade tr	eatment					
Soil (agricultural)	.waye li	catinent			No information available No information available		



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Trading name:	BLUING REAGENT					
Product code:	BR-OT-X**	Date of compilation:	23 January 2023	Version: 7		

Air			No information available		
	÷				
8.2.	Exposure controls				
8.2.1.	Appropriate engineering	controls	S		
	Substance/mixture relate measures to prevent exp 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 pr exposure:	revent	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 pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equi	oment			
8.2.2.1.	Eye and face protection:	n: Safety glasses that stick to face (preventing splashing) (EN visor.			
8.2.2.2.	Skin protection				
			ective gloves must be according to the EU Directive 2016/425/EEC and lard EN 374. Glove material: nitrile rubber		
			Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		es (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	ective full face mask (EN 136) or half mask (EN 140) equipped with a for organic vapors, type "A" (boiling point >65°C) acording to EN 7) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	formation available		
8.2.3.	Environmental exposure	controls	5		
	Substance/mixture relate measures to prevent exp		See Section 6		
	Structural measures to pr exposure:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pr exposure:	event	See Section 6		



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Trading name:	BLUING REAGENT						
Product code:	BR-OT-X**	Date of compilation:	23 January 2023	Version:	7		

	Value	Method	
Physical state:	liquid	No information available	
Color:	ight blue	No information available	
Odour/odour threshold:	no information available/no information available	No information available	
Melting point / freezing point:	No information available	No information available	
Boiling point or initial boiling point and boiling range:	No information available	No information available	
Flammability:	No information available	No information available	
Lower and upper explosion limit:	No information available	No information available	
Flash point:	No information available	No information available	
Auto-ignition temperature:	No information available	No information available	
Decomposition temperature:	No information available	No information available	
pH:	>8.0	No information available	
Kinematic viscosity:	No information available	No information available	
Solubility:	No information available	No information available	
Partition coefficient n-octanol/water (log value):	No information available	No information available	
Vapour pressure:	No information available	No information available	
Density and/or relative density	No information available	No information available	
Relative vapour density:	No information available	No information available	
Particle characteristics:	No information available	No information available	

SECTIO	SECTION 10.: Stability and reactivity			
10.1.	Reactivity:	See subsections 10.3 through 10.5.		
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.		
10.3.	Possibility of hazardous reactions:	No information available.		
10.4.	Conditions to avoid:	No information available.		
10.5.	Incompatible materials:	No information available.		
10.6.	Hazardous decomposition products:	No information available.		

SECTION 11. Toxicological information



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Trading name:	BLUING REAGENT						
Product code:	BR-OT-X**	Date of compilation:	23 January 2023	Version: 7			

11.1. Informatio	n on hazard classes as	defined in Regul	ation (EC) No 127	2/2008		
Acute toxic	city:					
Route of exposure:	Method		Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure t	ime Results	
Oral exposure:	No information available	-	LD ₅₀	-	-	
Dermal exposure:	No information - LD ₅₀ -		-			
Inhalation exposure:	No information available	-	- LC ₅₀ -		-	
Specific ta	rget organ toxicity – s	ingle exposure (S	TOT SE):			
		ic effects	Target	organ	Note	
Oral exposure:	No information		No informatio		-	
Dermal exposure:	No information		No informatio		-	
Inhalation exposure	No information	available	No information available		-	
-	I		Ĩ		1	
Aspiration	hazard:	No inforn	nation available			
:		i i				
Irritation a	nd corrosion:					
:	Exposure time	Species	Evaluation	Method	Note	
Skin irritation:	-	-	-			
Eye irritation:	-	-	-			
			· · · · ·			
Sensitizatio	on					
Dermal exposure:	No information avai	lable				
Inhalation exposure:	No information avai	lable				
Symptoms	related to the physica	al, chemical and to	oxicological chara	cteristics		
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:	Slight irritation After short exposure resonation effects are not likely Long-term exposure					



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Trading name:		BLUING REAGENT							
Product code: BR-OT-X**			Date o	f compilatio	n: 23 Janu	ary 2023	Version:	7	
Inhalation expos	lire.		large amount eezing, heada	•		ventilated perim	neter may cau	use	
Eye exposure:		Direct eye co sensation.	ntact may cau	se slight to m	noderate irrita	tion, lacrimation	and burning		
Repeate	ed dose	toxicity (sub	acute, subchro	onic, chronic)					
· ·		Dose	Exposure time	Species	Method	Evaluatio	n Note		
Subacute oral	No i availa	information Ible	No information available	No information available	No informati available	No informati available	on -		
Subacute dermal	No i availa	information ble	No information available	No information available	No informati available	No informati available			
Subacute inhalation	No i availa	information Ible	No information available	No information available	No informati available	No informati available	on -		
Subchronic oral	No i availa	information Ible	No information available	No information available	No informati available	No informati available	on -		
Subchronic dermal	No i availa	information Ible	No information available	No information available	No informati available	No informati available	on -		
Subchronic inhalation	No i availa	information Ible	No information available	No information available	No informati available		-		
Chronic oral	No i availa	information Ible	No information available	No information available	No informati available				
Chronic dermal	No i availa	information ble	No information available	No information available	No informati available	No informati available			
Chronic No information inhalation available		No information available	No information available	No informati available	No informati available				
Specific	target	organ toxicit	y – repeated e	exposure (STC)T RE):				
			pecific effects			t organ	Not	te	
Subacute oral		No informa	tion available	Ν	lo information	n available	-		
Subacute dermal		No informa	tion available	Ν	lo informatior	n available	-		
Subacute inhalat	ion	No informa	tion available	N	lo informatior	n available	-		



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Trading name:		BLUI	NG	REAGENT			
Product code:	BR-OT-X**	Date of compilation	Date of compilation: 23 January 2		Version: 7		
Subchronic oral	No information	tion available	No ir	formation available	-		
Subchronic derma	al No informat	tion available	No ir	formation available	-		
Subchronic inhala	tion No informat	tion available	No ir	formation available	-		
Chronic oral	No informat	tion available	No ir	formation available	-		
Chronic dermal	No informat	tion available	No ir	formation available	-		
Chronic inhalatior	n No informat	tion available	No ir	formation available	-		
Genotoxi Mutagen Germ cel	icity <i>in-vitro:</i>	Current <i>in vitro</i> test No information availa Current <i>in vivo</i> tests No information availa	Current studies on test animals did not indicate carcinogenic effects. Current in vitro tests did not indicate mutagenic effects. No information available Current in vivo tests did not indicate mutagenic effects. No information available No information available No toxicity on reproductive organs was determined in reproductive organs				
11.2. Informat	y of evaluation of th ion on other hazard e disrupting proper	ls:					
No know	n endocrine disrup	ting properties that affect	hum	an health.			
11.2.2. Other inf	ormation:						
-							

SECTION 12. Ecologi	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 (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note					



Value

Species

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

BR-OT-X** LC ₅₀ ants IC ₅₀ - ance and degradal degradation	96 hour 48 hour 72 hour -	rs Na av rs Na av	f compilation: o information railable o information railable o information railable	No i avai No i	3 January 20 information lable information lable	No information available No information available	/ersion - -	: 7
EC ₅₀ ants IC ₅₀ -	48 hour 72 hour	rs av rs Ni av	vailable o information vailable o information	avai No i	lable information	information available No information	-	
ants IC ₅₀ -	72 hour	rs av	ailable o information	-		information	-	
- nce and degrada		rc i				avanable		
nce and degrada	-		andbic		information lable	No information available	-	
		-		-		-	-	
legradation	bility							
Degradation ha	lf-lives		Method		E٧	aluation		Note
No information available			No information available			No information available		
lo information av	ailable	No information available No			No informa	tion available		-
lo information av	vailable	No information available No info			No informa	tion available		-
lo information av	ailable	No information available No infor			No informa	tion available		-
adation								
Time (day	s)		Method		Evaluation		Note	9
No infor available				No information available			No information available	
mulative potentia	al							
•		: (log Kc	ow)					
•	рН	°C	, Method		Evaluat	on	No	te
	-	-	No informatio available	on	No informa available	tion _		
	No information av No information av No information av adation Time (day No infor available mulative potentia -water partition o	No information available No information available No information available adation Time (days) No information available mulative potential -water partition coefficient Concentration pH	No information available No information No information available No information available No information available No information No information Available No information No information Available N	No information available No information available No information available No information available No information available No information available adation Image: State of the state of th	No information available No information available No information available No information available No information available No information available adation Image: State of the state of th	No information available No information No information No information available No information available	No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available Adation Time (days) Method Evaluation No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available No information available available No information available No information available mulative potential Voinformation Voinformation -water partition coefficient (log Kow) Evaluation Voinformation No information No information No information	No information available No information

Method

Evaluation

Note



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Trading name: BLUING REAGENT													
Produ	ct coo	de:	BR-O	T-X**	Date of compilation:		23 Jan	23 January 2023		Ver	sion: 7		
		No availal		ormation No info availabl		rmation le		No information available			No information available		
	Chr	onic ec	otoxicit	W					1				
	:	llue		Dose		osure ime	Spe	ecies	Met	hod	Eva	aluation	Note
Chroni	c toxic	city on	fish	LC ₅₀	No infor availa	mation able	No infori availa	mation able	No informa availab	ation	No inforr availa	nation Ible	-
Chroni crustac		-)	EC ₅₀	No infor availa	mation able	No infori availa	mation able	No informa availab	ation	No inforr availa	nation Ible	-
12.4.	Kno		oredicte	ed distributi /ailable	on in e	environme	ental d	compart	ments:				
	Surf	face ter	nsion:										
		Value		°C	Concentration			Metho	d		Ν	lote	
		ormatio ilable		o ormation ailable				o information vailable		-			
		-		-									
Transp	1	A	n / desc /D coef enry's co	-	lc	og Kow	E١	vaporati	on rate	Met	hod		Note
Soil-wa	ater	No information No information No inform			nation No informat available			on _					
Water-	-air	No availa		nformation	No ir availa	nformatio able		o inform ailable	nation	No infor available		on _	
Soil-air	r	No availa		nformation	No ir availa	nformatio able		o inform ailable	nation	No infor available		on _	
12.5.				d vPvB asses	sment								
	No	inform	ation av	/ailable									



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Trading name:	BLUING REAGENT							
Product code:	BR-OT-X**	Date of compilation:	23 January 2023	Version: 7				

12.6.	Endocrine disrupting properti	es					
	No known endocrine disrupting properties that affect the environment.						
12.7.	Other adverse effects						
	No adverse effects are expect	ted.					
	N 13. Disposal consideration	S					
13.1.	Waste treatment methods						
13.1.1.	Product/Packaging disposal						
13.1.1. Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.							
13.1.2.	Waste codes/waste designa	tions according to Law:					
	No information available						
13.1.3.	Waste treatment – relevant information:						
13.1.4.	Sewage disposal – relevant						
	Waste must not be disposed	d of into the sewage system.					
13.1.5.	Other disposal recommenda						
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit						
		fors authorized by the ministry in charge. Do not dispose of in places where					
	ignition may occur.						
13.1.6.	Relevant Community provis	ions:					
	-						
SECTIO	N 14. Transport information						
	Transporting/shipment by roa						
UN num		Not subject to transport regulations.					
	per shipping name:	-					
Transport hazard class(es): -							



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Trading name:	BLUING REAGENT								
Product code:	BR-OT-X**	Date of compilation: 23 January 2023 Version: 7							
Packing group:		-							
Environmentally ha	zardous:	-							
Special precautions	s for user:	-							
Transporti	ng/shipment by rai	il (RID)							
UN number:		Not subject to transport regulations.							
UN proper shipping	g name:	-							
Transport hazard cl	lass(es):	-							
Packing group:		-							
Environmentally ha	zardous:	-							
Special precautions	s for user:	-							
Inland wat	erway transport (A	DN)							
UN number:		Not subject to transport regulations.							
UN proper shipping	g name:	-							
Transport hazard cl	lass(es):	-							
Packing group:		-							
Environmentally ha	zardous:	-							
Special precautions	s for user:	-							
Transporti	ng/shipment by se	a (IMDG)							
UN number:		Not subject to transport regulations.							
UN proper shipping	g name:	-							
Transport hazard cl	lass(es):	-							
Packing group:		-							
Environmentally ha	zardous:	-							
Special precautions	s for user:	-							
Transporti	ng/shipment by air	(ICAO-TI/IATA-DGR)							
UN number:		Not subject to transport regulations.							
UN proper shipping	g name:	-							
Transport hazard class(es):		-							
Packing group:		-							
Environmentally ha	zardous:	-							
Special precautions		-							
· · ·									
Further informatior	n: The produc	ct is not subject to classification.							



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Trading name:	BLUING REAGENT						
Product code:	BR-OT-X**	Date of compilation:	23 January 2023	Version: 7			

	EU regulations					
	Authorization and/or res	trictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9, and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2000 on the limitation of emissions of volatile organic compounds due to the use of organi solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safet of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 11 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); 				
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)					
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessme					
	None					

SECTIO	SECTION 16. Other information							
16.1.	Indication of changes:	-						
		PBT	Stable, bioaccumulative and toxic					
		vPvB	Strongly stable and strongly bioaccumulative.					
16.2.	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:	-						



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Trading name:	BLUING REAGENT				
Product code:	BR-OT-X**	Date of compilation:	23 January 2023	Version: 7	

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classifi	cation	Classification procedure		
-		-		
16.5.	Relevant H statements (num	ber and full text)		
	H: -	-		
16.6.	Training advice:	-		
		** "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% ALCOHOLIC				
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version:	2

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	EOSIN Y 2%		DLIC	
	Chemical name:	-			
	Catalogue number:	EOYA-20-O	T-X**		
1.2	Relevant identified use	es of the subst	tance or n	nixture and uses advised against	
	Uses:		Reagent	for cytoplasm counterstaining.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advis	ed against:	ed against: The product is intended for use only as an <i>in vitro</i> device, registered at the Agency for Medicinal Pro Devices and there is no reason to use it for other pro-		
1.3	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Address:			orska 59, Zagreb	
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	<u>msds@t</u>	<u>piognost.hr</u>	
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ECTION 2. Hazards identification				
2.1	Classification of the substance	or mixture			
2.1.1	Classification according to Reg	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and categ	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% ALCOHOLIC				
	Identification number: -				
	Authorization number:	-			



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Trading name:	EOSIN Y 2% ALCOHOLIC				
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version: 2	

	Signal word: Hazard statements:	GHS02 Danger H225 Highly flammable liquid and vapor. P210 Keep away from heat/sparks/open flames/hot surfaces Do not
	Precautionary statements:	 smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
2.5	Endocrine Disrupting Prope No known endocrine disrupti	

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- 0147	70-90 %	ethanol	Flam. Liq. 2; H225			
64-19-7/ 200-580-7/ 607-002-00-6	-	0.2 – 0.5 %	acetic acid	Flam. Liq. 3; H226 Skin Corr. 1A; H314			

SECTI	SECTION 4. First aid measures				
4.1	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			



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Trading name:	EOSIN Y 2% ALCOHOLIC				
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version: 2	

	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.
	Self-protection of the first aider:	-
4.2	Most important symptoms and ef	fects, both acute and delayed
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.
4.3	Indication of any immediate medi	cal attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Formation of toxic gases is possible during heating or in case of fire.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit of	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.			

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



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Trading name:		EOSIN Y 2% ALCC	HOLIC		
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version:	2

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.
	Emergency procedures:	Mark the area using proper signs.
6.1.2.	For emergency responders:	
	Use protective equipment; in c (see Section 8).	ase of inadequate ventilation use adequate airways protective equipment
6.2	Environmental precautions:	
	Do not dispose of in sewage, d Protection and Rescue Director	lrainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.
6.3	Methods and material for cont	ainment and cleaning up
6.3.1.	Bunding, covering of drains; capping procedures:	Sand 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 of	on safe handling.
	See Section 8 for information of	on personal protection equipment.
	See Section 13 for disposal info	ormation.

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 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:	



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Trading name:		EOSIN Y 2% ALC	OHOLIC		
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version:	2

	Do not eat, drink or smoke in the workspace. Th	noroughly wash hands after work and before eating.
7.2	Conditions for safe storage, including any incon	npatibilities
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in 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:	-

SECTION 8. Exp	osu	re contro	ols/perso	onal pr	otecti	ion				
8.1 Control	par	ameters								
Substar	nce		CA	S No		•	ational o s/short	•	ure limit values	Biological limit values
						рр	m	m	g/m³	-
Ethanol			64	-17-5		100	0/-	19	900/-	-
Substance name	e:	-								
EC No:		-	CAS No	:	-					
DNEL										
						Indus	strial			
Route of exposure:		Acu effect		effe	Acute ct syst				onic t local	Chronic effect systemic
Oral		-		-			-			-
Inhalation		1900 mg (ethanol)		-			-			380 mg/m ³ (ethanol)
Dermal		-		-			-			343 mg/kg (ethanol)
Critical physical	para	meters: s	olubility,	flamm	ability	, corros	sivity:		-	



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Trading name:		EOSIN Y 2% ALCO	DHOLIC	
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version: 2

			Co	onsi	umer	
Route of		Acute	Acute	•_	Chronic	Chronic
exposure:		effect local	effect system	IC	effect local	effect systemic
Oral		-	-		-	87 mg/kg bw/day (ethanol)
Inhalation		950 mg/m ³ (ethanol)	-		-	114 mg/m ³ (ethanol)
Dermal		-	-		-	206 mg/kg (ethanol)
PNEC				•		
Environme	ntal protec	tion target		PI	NEC	
Fresh wate	r			0.	96 mg/l (ethanol)	
Freshwater	sediments	5		3.	6 mg/kg (ethanol)	
Marine wat	ter			0.	79 mg/l (ethanol)	
Marine sed	liments			2.	9 mg/kg (ethanol)	
Food chain		38	30-720 mg/kg (ethanol)			
Microorganisms in sewage treatment 5		58	580 mg/l (ethanol)			
Soil (agricu	(agricultural) 0.63 mg/kg (ethanol)					
Air				no	o information available	
8.2	Exposure	e controls				
8.2.1.	Appropr	iate engineering o	controls			
		ce/mixture relatec exposure during i		pr	se the product in well ventil rotective equipment. Do no orkspace.	-
	Structura exposure	al measures to pre e:	event	In accordance with Section 7.		
	Organisa exposure	ational measures t e:	to prevent	Organization of work in order to reduce other worker's influence during work process.		
	Technica	l measures to pre	event exposure:	сс	ecure proper workspace ver oncentration levels in air bel ations for rinsing eyes and s	ow permitted levels. Secure
8.2.2.	Personal	protection equip	ment			
8.2.2.1.	Eye and	face protection:	levels	of c		66) or visor in case of lower ve gas mask that covers the concentration in air.
8.2.2.2.	Skin prot	tection				



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Trading	name:		EOSIN Y 2% ALC	OHOLIC		
Product	code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version:	2
	Hand	protection:	The protective gloves hav Regulation (EU) 2016/429 Glove material: n Glove thickness: Time until perfor	5 and the related standard itrile rubber 0.40 mm		
	Other	skin protection:	During everyday work us footwear, such as rubber entire foot. In case of spil impermeable material su (Viton, PVC, himex) and f	boots (EN 20345) or sho lling hazard, use clothing itable for protection from	es that cover made of Iquid chem	the icals
8.2.2.3.	Respi	ratory protection:	Protective full face mask with a filter for organic va acording to EN 14387) us	apors, type "A" (boiling p	oint >65°C)	
8.2.2.4.	Therm	nal hazards:	No information available			
8.2.3.	Enviro	onmental exposure controls	,			
		ance/mixture related ures to prevent exposure:	See Section 6			
	Struct expos	ural measures to prevent ure:	Use modern equipment.			
	-	nisational measures to nt exposure:	Adapt the work process t workplace.	to the required working c	onditions of	the
	Techn expos	ical measures to prevent ure:	See Section 6			

.1	Information on basic physical and o	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	orange to pink-red	No information available
	Odour/odour threshold:	ethanol like/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	21 °C	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	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:	14 November 2022	Version:	2

).2	Other information		
	Particle characteristics:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Solubility:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	pH:	5.4 -5.7	No information available

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. T	oxicological info	rmation			
11.1 Inform	ation on hazard c	lasses as defined in	Regulation (EC) No 127	2/2008	
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:	-	rabbit (ethanol)	LD ₅₀	-	>20.000 mg/kg
Inhalation:	-	rat (ethanol)	LC ₅₀	4 h	>8.000 mg/l
	·		·`		
Specifi	c target organ to	kicity – single exposu	ure (STOT SE):		
	S	pecific effects	Target o	organ	Note
Oral:	No informat	tion available	No information available		
Dermal:	No informat	No information available		available -	
Inhalation:	halation: No information available		No information a		



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Trading name:		EOSIN Y 2% ALC	OHOLIC		
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version:	2

Aspirati	on hazar	·d:		No information available.				
Irritatio	n and co	rrosion						
1		Exposur	e time	Species	Evaluation	Method	Note	
Skin corrosion/irritatio	on:	-	-	-	-	-	-	
Serious eye damage/irritation			-	-	-	-		
Sensitiz	ation							
Skin sensitizatior	ו:	No inf	ormation ava	ilable.				
Respiratory sense	itization:	No inf	ormation ava	ilable.				
Sympto	ms relate	ed to the ph	ysical, chemi	cal and toxicolo	gical characteri	stics		
Oral exposure:	N	lo informati	on available.					
Dermal exposure	e: N	lo informati	on available.					
Inhalation exposure: No information		on available.						
Eye exposure:	N	lo informati	on available.					
Repeate	ed dose t	toxicity (sub	acute, subchr	onic, chronic)				
	Γ	Dose	Exposure time	Species	Method	Evaluatio	n Note	
Subacute oral	No in availab	nformation ble	No information available	No information available	No information available	No informati available	on -	
Subacute dermal	No information available		No information available	No information available	No information available	No informati available	on -	
Subacute inhalation	No information available		No information available	No information available	No information available	No informati available	on -	
Subchronic oral	al No information available		No information available	No information available	No information available	No informati available	on -	
Subchronic dermal	No in availab	nformation ble	No information available	No information available	No information available	No informati available	on -	



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Trading name:					EOSIN Y 29	% ALC	OHOLIC			je 10 of 17	
Product code:	EC	YA-20-OT->	(**	* Date of compilation:			14 November 2022			Version: 2	
Subchronic inhalation		No information information available		n ir	lo nformation vailable	No information available		No information available		_	
Chronic oral	No availa	information able	No information available	n ir	lo nformation vailable	No infor avail	mation able	No informatio available	on	-	
Chronic dermal	No information available		No information available	n ir	lo nformation vailable	No infor avail	mation able	No informatio available	on	-	
Chronic inhalation	No information available No informa availab			n ir	lo nformation vailable	No infor avail	mation able	No informatio available	on	-	
c :::					(6707						
Specific	target	organ toxicit	y – repeatec Specific eff		osure (STOT	KE):	Target o	rgan		Note	
Subacute oral		No informa	tion availab			Target organ No information available		-			
Subacute derma			ation available		No information available		_				
Subacute inhalat			ation available		No information available		-	_			
Subchronic oral		No informa	tion availab	able No information availa		n available	-				
Subchronic derm	nal	No informa	tion availab	le		No information available -		-			
Subchronic inhal	ation	No informa	tion available N		No information available		-				
Chronic oral		No informa	tion availab	on available No		No in	No information available		-		
Chronic dermal		No informa	tion available		No information available		-				
Chronic inhalatic	n	No informa	tion availab	le		No in	formatior	n available	-		
i											
		arcinogenicit	y; mutagenio	-							
Carcino										a are not me	
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					Based on available data, the classification criteria are not met.Based on available data, the classification criteria are not met.						
Reprodu		agenicity: coxicity:								a are not me	
Summa propert		evaluation	of the	CMR	Based on met.	availab	le data, t	he classifica	ation	criteria are	not
11.2 Informa	tion or	n other hazard	ds:								
11.2.1. Endocri	ne disr	upting prope	rties:								



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Trading name:		EOSIN Y 2% ALC	COHOLIC
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022 Version: 2
	vn endocrine disrupting ct human health.	properties	
11.2.2. Other inf	ormation:		

-

SECTION 12. Eco	ologica	l informat	ion				
12.1 Toxicity							
Acute (short-tern toxicity	n)	Dose	Exposure time	Species	Method	Evaluation	Note
Fish		LC ₅₀	96 hours	Golden orf	No information available	8.140 mg/l /48 h (ethanol)	-
Crustacea:	1	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants IC ₅₀		4 days	No information available	No information available	5.000 mg/l / 7d (ethanol)	-	
Other organisms		-	-	-	-	-	-
Chronic (long-ter toxicity	rm)	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	information		-
Other organisms		_	-	-	-	-	-
12.2 Persister	nce and	d degradab	ility				
Abiotic	degrada	ation			1	1	
	Degr	radation ha	lf-lives	Method	Evaluatio	n	Note
Marine water	No info	ormation av	vailable	No information available	No informatio available	n _	



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Taal	_					FOCINING	/			Ра	ge 12 of 17	
Trading name					_	EOSIN Y 29						
Product code	•	EOYA-20	-OT-X*	*	Dat	e of compilat	ion:	14 Nc	vembe	r 2022	Version:	2
Fresh water	No	informatio	on avail	able				No information available		-		
Air	No	No information available			No in availa	formation ble	-	informatio ilable	n	-		
Soil	No information available		No in availa	formation ble		information ilable	n	-				
Biode	gradat	ion										
% Degradati	-		ne (days)		Method		Evaluatio	n		Note	
No informatior available	1	No available		nation	No in availa	formation ble		information ilable	n	No info availab	rmation e	
		ative pote ter partitio		icient (log Kov	v)						
Value		entration		H	°C	Method		Evalu	ation		Note	
			-		-	-		-		-		
Biocol	ncentr	ation fact	or (BCF)									
Value		Sp	pecies		Method		Evaluation		Note			
No information available		No available	inform	nation				No information available		-		
Chron	ic eco	toxicity		*			2		-			
Valu	Value Dose Ex			osure ime	Species		Method	Evalu	uation	Note		
Chronic toxicity on fish LC ₅₀		No infor	mation	No information	1	o formation	No inform	nation	-			
Chronic toxicity	/ on fi	sn LC	-50	availa		available	av	ailable	availal	ole		



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Trading name:		EOSIN Y 2% ALCO	HOLIC		
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version:	2

	Known or pre					
		edicted distributi	on in environmen	tal compartments:		
	No informati	on available				
	Surface tensi	on:				
	Value	°C	Concentratio	n Metho	od	Note
i	No No information information available available		No information available	n No information available	n _	
I	Adsorption /	desorption				
Transpor	+	coefficient y's constant	log Kow	Evaporation rate	Method	Note
Soil-wate	er No availabl	er No information available		No information available	No information available	-
Water-air	air No information available		No information available	No information available	No information available	-
Soil-air	No availabl	information e	No information available	No information available	No information available	-
		T and vPvB asses				
	Based on ava	illable data, the p	product does not o	contain any PBT or v	PvB substances.	
10.0	For the entire scale.					
		srupting properti				
	Daseu on ava	illable data, does	not contain endo	crine disruptors.		
12.7	Other advers	e effects				
		effects are expect	ed			
SECTION	N 13. Disposa	l consideration	s			
13.1	-	tment methods				
13.1.1.	Product/Pa	ckaging disposa	:			
	Submit for Protection.	disposal to the l	egal person autho	rized by the Ministr	y of Environmenta	al and Nature



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Trading name:		EOSIN Y 2% ALC	COHOLIC
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022 Version: 2

13.1.2.	Waste codes/waste desig	Waste codes/waste designations according to Law:						
	15 01 10*: Packaging tha substances	t contains residual hazardous substances or is contaminated with hazardous						
13.1.3.	Waste treatment – releva	int information:						
	No information available							
13.1.4.	Sewage disposal – releva	nt information:						
	Waste must not be dispo	osed of into the sewage system.						
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 ectors authorized by the ministry in charge.						
13.1.6.	Relevant Community pro	visions:						
	Disposal must be made a	according to official regulations.						
SECTIO	N 14 TRANSPORT INFORM	ΛΑΤΙΟΝ						
	Transporting/shipment by	road (ADR)						
UN num	ber:	1170						
UN prop	per shipping name:	Ethanol solution						
Transpo	rt hazard class(es):	3						
Packing	group:	П						
Environr	mentally hazardous:	-						
Special p	precautions for user:	-						
	Transporting/shipment by	rail (RID)						
UN num	ber:	1170						
UN prop	per shipping name:	Ethanol solution						
	rt hazard class(es):	3						
Packing	group:	II						
Environmentally hazardous:		-						
	precautions for user:	-						
	Inland waterway transport	(ADN)						
UN num		1170						
UN prop	per shipping name:	Ethanol solution						
	rt hazard class(es):	3						



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Trading name:	EOSIN Y 2% ALCOHOLIC				
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version:	2

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

SECTIO	SECTION 15. Regulatory information						
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations						
	Authorization and/or restrictions of use						
	Authorizations:	-					
	Restrictions:	-					



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EOSIN Y 2% ALCOHOLIC						
(A-20-OT-X**	Date of compilation:	14 November 2022	Version:	2		
1	′A-20-OT-X**					

	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 1999 guideline)	9/13/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 assessmen	t
	None	

SECTIC	ECTION 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 			
16.3.	Key literature references and source of data:	-			



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Trading name:	EOSIN Y 2% ALCOHOLIC						
Product code:	EOYA-20-OT-X**	Date of compilation:	14 November 2022	Version:	2		

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classifi	catior	ו	Classification procedure			
-			-			
16.5.	Rele	evant H statements (num	ber 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.	Trai	ning advice:	-			
			** "X" in the product code marks different volumes (different packagings of the product)			
16.7.	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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Trade name:	BIOMOUNT NEW LOW					
Product code:	BMNL-X**	Date of compilation:	14 November 2022	Version: 4		

SECTI 1.1.	Product identifier						
	Trade name:	BIO	MOUNT NEW LOW				
	Chemical name:	-	-				
	Catalogue number:	BM	MNL-X**				
1.2.	Relevant identified use	Relevant identified uses of the substance or mixture and uses advised against					
	Uses:		For covering micro	scope sections and mounting covering glasses.			
	Uses advised against:		Only the identified	uses are advised.			
	Reason why uses advised rec		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	Medjugorska 59, Zagreb			
	Telephone number:	Telephone number:		+385 1 2409997			
	Telefax:	Telefax:		+385 1 2404039			
	e-mail of competent p	ersor	n: <u>msds@biognc</u>	msds@biognost.hr			
	National contact:	National contact:		-			
1.4.	Emergency telephone numbers						
	National Protection an	d Res	scue Directorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or	[.] mixture				
2.1.1.	Classification according to Regula	ation (EC) No 127	72/2008 (CLP)			
	Hazard class and categor	ry code:	Warning statements*:			
	Aspir. Tox. 1 H304					
2.1.2.	Additional information					
	EUH066					
* For fu	ll text of Hazard- and EU Hazard-s	tatements: see SE	ECTION 16			
2.2.	Label elements					
	Product identification: BIOMOUNT NEW LOW					
	Identification number: -					
	Authorisation number:	-				



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Trade name:	BIOMOUNT NEW LOW						
Product code:	BMNL-X**	Date of compilation:	14 November 2022	Version: 4			

	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:	 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents and container in accordance with local regulations. 				
	Supplemetal hazard information (EU):	_				
2.3.	Other hazards					
	Environmental Hazards:					
	No significant hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.					
	Endocrine Disrupting Properties:					
	No known endocrine disrupting pro	perties.				

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:	Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.			



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Trade name:		BIOMOUN	BIOMOUNT NEW LOW		
Product code:	BMNL-X**	Date of compilation:	14 November 2022	Version: 4	

	Following skin contact	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.		
	Following eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.		
	Following ingestion:	DO NOT induce vomiting. Seek immediate medical attention.		
	Self-protection of the aider	irst -		
4.2.	Most important sympt	oms and effects, both acute and delayed		
	Following inhalation:	No important symptoms or effects.		
	Following skin contact:	No important symptoms or effects.		
	Following eye contact:	No important symptoms or effects.		
	Following ingestion:	No important symptoms or effects.		
4.3.	Indication of any imme	diate medical attention and special treatment needed		
	If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriate			

SECTI	CTION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.				
	Unsuitable extinguishing media:	Straight streams of water				
5.2.	Special hazards arising from the subst	tance or mixture				
	Hazardous by products of fire: Sr	moke, fume, incomplete combustion products, carbon oxides.				
5.3.	Advice for firefighters					
	Evacuate the area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.					
5.4.	Additional information					
	-					

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.			



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Trade	name:	BIOMOUNT NEW LOW				
Produ	ct code:	BMNL-X**	Date of compilation:	14 November 2022	Version: 4	
	Accident prevention methods:		surrounding and o	Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information		
	Emergenc	y procedures:	See the Hazard Ider Section 4 for First A	ntification Section for Sign id Advice.	ificant Hazards. See	
6.1.2.	For emerg	jency responders:				
	Respiratory protection: half-face or full-face respirator with filter(s) for organic vapor and, when appli H2S, or self contained breathing apparatus (SCBA) can be used depending on the size of spill and pot level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosph possible or anticipated, SCBA is recommended. Work gloves that are resistant to aromatic hydroca are recommended. Note: gloves made of polyvinyl acetate (PVA) are not water-resistant and are not su for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical res antistatic material is recommended.				ize of spill and potential deficient atmosphere is aromatic hydrocarbons tant and are not suitable h eyes is possible. Small	
6.2.	Environme	ental precautions:				
		lls: Dyke far ahead o asements or confined	of liquid spill for later recc d areas.	overy and disposal. Prever	nt entry into waterways,	
6.3.	Methods a	and materials for cor	ntainment and cleaning up			
6.3.1.	Bunding, o drains; cap procedure	covering of V oping i es: s	Land Spill: Stop leak if you can do so without risk. Water Spill: Stop leak if you can do so without risk. Confine the simmediately with booms. Warn other shipping. Remove from the surface skimming or with suitable absorbents. Seek the advice of a specialist befusing dispersants.		ove from the surface by	
6.3.2.	Cleaning u	in.	Absorb or cover with dry earnsfer to containers. Reco			
6.3.3.	Other info	ormation: s	Secure proper ventilation. Contact the responsible person; in case of larg spills and possible environmental pollution contact National Protection a Rescue (112).		5	
6.4.	Reference	to other sections				
	See Section 7 for information abour See Section 8 for information abour See Section 13 for information abo		about personal protective	equipment.		

SECTIC	SECTION 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source).				



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Trade name:		BIOMOUNT NEW LOW					
Produ	ct code:	BMNL-X**	Date of compilation	n:	14 November 2022	Version:	4
	Measure	s to prevent aeroso	l and dust generation:	Secure proper ventilation.			
	Measures to protect the environment: Other measures:		vironment:	 When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid. 			
7.1.2.	Advice o	n general occupatio	onal hygiene:				
	Always observe good personal hygiene measures, su			uch as washing after handling the material and before			

eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

7.2.	Conditions for safe storage, including any incompatibilities
1.2.	Conditions for sale storage, including any incompatibilities

specific solutions:

1.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures an	d storage conditions:	Keep in a cool and well-ventilated area.		
	Packaging materials:		Teflon, polypropylene, stainless steel, carbon steel.		
	Requirements for storage rooms and vessels: Advices for storage equipment: Further information on storage conditions:		The type of container used to store the material may affect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release.		
			Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be earthed and bonded to prevent accumulation of static charge.		
			Suitable materials and coating are carbon steel, stainless steel, teflon, polyethylene, polypropylene. Unsuitable materials and coatings: butyl rubber, natural rubber, ethylene-proplyene-diene monomer (EPDM), polystyrene		
7.3.	Specific end use(s)				
	Recommendations:	Section 1 informs about i	dentified end-uses.		
	Industrial sector				



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Trade name:	BIOMOUNT NEW LOW				
Product code:	BMNL-X**	Date of compilation:	14 November 2022	Version: 4	

SECTION 8. Exposur	e contr	ols/personal	l protection	I				
8.1. Control para	meters							
Substance	Substance CAS I		No	Occupational exposure limit values/short term values		Biological limit values		
				ppm	mg/m³			
Hydrocarbons, C11-C isoalkanes, <2% aron		-		171*	1200*	1200* No information available		
* Source - material sa	ifety dat	a sheet provi	ided by the	raw materia	ls supplier			
Substance: -								
EC No: -		CAS No:	-					
DNEL								
			lı	ndustrial				
Route of exposure:	Route exposi		Route of e	xposure:	Route of ex	posure:	Route of exposure:	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
Critical physical parar	neters: s	solubility, flar	nmability, co	orrosivity:	-			
			С	onsumer				
Route of exposure:	Route exposi		Route of e	xposure:	Route of ex	posure:	Route of exposure:	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
PNEC								
Environmental protec	tion tar	get		PNEC				
Fresh water				No information available				
Freshwater sediments	5			No information available				
Marine water				No information available				
Marine sediments				No inform	nation available	9		
Food chain				No inform	nation available	è		
Microorganisms in se	wage tr	eatment		No inform	nation available	è		
Soil (agricultural)				No inform	nation available	9		
Air				No inform	nation available	9		
	·							



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Trade name:	BIOMOUNT NEW LOW				
Product code:	BMNL-X**	Date of compilation:	14 November 2022	Version: 4	

8.2.	Exposure controls	
8.2.1.	Appropriate engineering control	S
	Substance/mixture related measures to prevent exposure during identified uses:	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.
	Structural measures to prevent exposure:	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.
	Technical measures to prevent exposure:	See Section 7.2
8.2.2.	Personal protection equipment:	
8.2.2.1.	Eye and face protection:	If contact is likely, safety glasses with side shields are recommended.
8.2.2.2.	Skin protection	
	Hand protection:	If prolonged or repeated contact is likely, chemical-resistant gloves are recommended. If contact with forearms is likely, wear gauntlet- style gloves. Nitrile, minimum 0.38 mm thickness or comparable protective barrier material with a high performance level for continuous contact use conditions, permeation breakthrough minimum 480 minutes in accordance with CEN standards EN 420 and EN 374.
	Other skin protection:	If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.
		If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:
8.2.2.3.	Respiratory protection:	Half-face filter respirator Type A filter material, European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.
		For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.
8.2.2.4.	Thermal hazards:	No information available.
8.2.3.	Environmental exposure controls	;



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Substance/mixture related measures to prevent exposure:	Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.
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 ar	nd chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	no odour/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	188°C - 210 °C	ASTM D86
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	62 °C	ASTM D-93
	Auto-ignition temperature:	222 °C	ASTM E659
	Decomposition temperature:	No information available	No information available
	pH:	Not technically feasible	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	Negligible	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
.2.	Other information		



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SECTIO	SECTION 10.: Stability and reactivity				
10.1.	Reactivity:	No information available			
10.2.	Chemical stability:	The product is stable under normal conditions.			
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:	Material does not decompose at ambient temperatures.			

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008						
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 > 5000 mg/kg	-	Minimally toxic	
Dermal:	No information available	rabbit	LD ₅₀ > 5000 mg/kg	-	Minimally toxic	
Inhalation:	No information available	rat	LC ₅₀ > 5000 mg/ m ³	8 h	Minimally toxic	

	Specific effects	Target organ	Note
Oral:	No information available	No information available	-
Dermal:	No information available	No information available	-
Inhalation:	No information available	No information available	-

Aspiration haz	ard:	May be fatal if swa aspiration, a nor chemical properti- and also if it is v derived. Risks from be controlled by substances classif implemented to o swallowed then se vomiting.	n-quantifiable h es (i.e. viscosity) omited followin n the physicoch implementing ied as H304, the control the asp	hazard determin that can occur ng ingestion. A emical hazards o risk manageme e following mea iration hazard.	ned by physico- during ingestion DNEL cannot be of substances can nt measures. For sures need to be Do not ingest. If
Irritation and o	orrosion				
	Exposure time	Species	Evaluation	Method	Note



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Trade name:			BIOMOU	NT NEW LOW		
Product code:	BMNL-X**	Date of compilation:		14 Novembe	r 2022	Version: 4
					1	
Skin corrosion/irritatio	on No informa	ation available	-	Not irritating.	-	-
Serious eye damage/irritatior	No informa	ation available	-	Not irritating.	-	-
Sensitiza	ation					
Skin sensitization		ed to be a skin	sensitizer.			
Respiratory sensitization:			iratory sensitize	r.		
Sympto	ms related to the p	ohysical, chemi	cal and toxicolo	gical characterist	tics	
Oral exposure:	May be fatal if	swallowed and	d enters airways	•		
Dermal exposure	: May dry the sl	kin leading to d	discomfort and o	dermatitis.		
Inhalation exposure:	Negligible haz	ard at ambien	t/normal handlir	ng temperatures	•	
Eye exposure:	May cause mil	d, short-lasting	g discomfort to	eyes.		
Repeate	d dose toxicity (su	bacute, subchr	onic, chronic)		:	
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No informatio available	n -
Subacute dermal	No information available	No information available	No information available	No information available	No informatio available	n -
Subacute inhalation	No information available	No information available	No information available	No information available	No informatio available	n -
Subchronic oral	No information available	No information available	No information available	No information available	No informatio available	n -
Subchronic dermal	No information available	No information available	No information available	No information available	No informatio available	n -
Subchronic inhalation	No information available	No information available	No information available	No information available	No informatio available	n -



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Trade name:			BIOMOUI	NT NEW LOW			
Product code:	BMNL-X**	BMNL-X** Date of c		14 Novembe	er 2022	Version: 4	
Chronic oral	No information available	No information available	No information available	No information available	No informatio available	n -	
Chronic dermal	No information available	No information available	No information available	No information available	No informatio available	n -	
Chronic inhalation	No information available	No information available	No information available	No information available	No informatio available	n -	
		••••••	(0707				
Specific	target organ toxic	· · ·	-			Nata	
Subacute oral	N	o information	c effects available	Target No available	information	Note -	
Subacute derma	I N	No information available		No available	information	-	
Subacute inhalat	ion N	lo information available		No available	information	-	
Subchronic oral	Ν	No information available		No available	information	-	
Subchronic derm	nal N	No information available		No available	information	-	
Subchronic inhal	ation N	No information available		No available	information	-	
Chronic oral	Ν	No information available		No available	information	-	
Chronic dermal	N	No information available		No available	information	-	
Chronic inhalation		No information available		No available	information	-	
CMR ef	fects (carcinogenic	ity; mutagenici	ty; reproductive	toxicity)			
Carcinogenicity:			Not expec	ted to cause similar materia		ed on test data fo uivalent or similar to	
Mutagenicity in-vitro:		No informa	tion available				
Genoto	xicity:		No informa	tion available			
Mutage	nicity <i>in-vivo</i> :			tion available			
Germ ce	ell mutagenicity:		for structur	-	erials. Test(s)	n. Based on test dat equivalent or simila 3 479.	



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Trade name:			BIOMOUNT NEW LOW							
Produc	Product code: BMNL-X** Date of co				14 November 2022	Version: 4				
	Reprodu	ctive toxicity:		data for st	ed to be a reproductive ructurally similar material ECD Guideline 413 414 41	s. Test(s) equivalent or				
	Summary propertie	y of evaluation es:	of the CMR	No informa	tion available					
11.2.	Informat	ion on other hazard	s:							
11.2.1.	Endocrin	e disrupting proper	ties:							
		n endocrine disrupt thuman health.	ting properties							
11.2.2.	Other inf	ormation:								

Vapour concentration above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anasthetic may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

SECTION 12. Ecolog	gical informat	ion				
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish:	LC ₅₀	96 hours	Oncorhynchus mykiss	No information available	-	1000 mg/l
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	-	1000 mg/l
Algae/aquatic plants:	IC ₅₀	72 hours	Pseudokirchne riella subcapitata	No information available	-	1000 mg/l
Other organisms:	-	-	-	-	-	-
Chronic (long- 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	-	-



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Trade parts at				DIOMOU			Page 1	צווטכ
Trade name:					NT NEW LOW	~~~~		
Product code:	BMNL-X**	D	Date of compilation:		14 November 2022		Versior	: 4
Algae/aquatic plants:	IC ₅₀	IC ₅₀ 72 hours		No information available	No information - available		-	
Other organism	ms: - 21 da		(s)	Daphnia magna	-	-	NC	ELR 1 mg/l
12.2. Persiste	ence and degradab	oility						
Abiotic	degradation							
	Degradation ha	alf-lives		Method	Evaluation	n	N	ote
Marine water	No information a	vailable		information ilable	No information available		-	
Fresh water	No information a	o information available		information ilable	No information available		-	
Air	No information a	o information available		information ilable	No information available		-	
Soil	No information a	vailable	Δ		No information available		-	
Biodeg	radation							
% Degradation	Time (days	5)	Method		Evaluatio	on	N	ote
Percent Degraded 31.3: similar material	graded 31.3:		Ready Biodegradability (water)		No informati available	on i	Expected to inherently biodegradal	
12.3. Bioaccu	umulative potentia							
Octano	l-water partition c	oefficient	: (log K	(ow)	Ĩ		8	
Value	Concentration	рН	°C	Method	Evalu	ation	1	lote
>1	No information available	-	-	Estimated	No inforn available	nation	No inforr available	nation
Biocon	centration Factor (BCF)						
DIOCOTI		ntration Factor (BCF) Species			Evaluation			



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Trade r	name:		BIOMOUNT NEW LOW								
Produc	t code:	BM	BMNL-X** Date		Pate of compilation: 14 November		2022	Versio	on: 4		
No info available		No information available			No information available		n	No information available		No information available	
	Chronic	ecotoxi	city								
	Value		Dose		osure ime	Spe	ecies	Method	Eva	aluation	Note
Chronic	toxicity o	n fish	LC ₅₀	No inforr availa	nation Ible	No inforr availa	nation Ible	No information available	No in availa	formation ble	Not expected.
	toxicity o ea (Daphn		EC ₅₀	No inforr availa	nation ble	No inforr availa	mation able	No information available	No in availa	formation ble	Not expected.
	Surface t										
	Value No informat available	ion	°C No informa available	tion I	Concentr No inform available		No inf availat	Method ormation ble	p e s	lighly volati artition rapi xpected to	idly to air. No
Transpo	Adsorpti	A/D	coefficient			g Kow		Evaporation		1ethod	Note
Soil-Wa			/'s constant ation availab		No available	-	mation	rate No information available		formation	-
Water-Air No information available			No information available		No information available	No in availa	formation ble	_			



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Soil-Air	No information available	No available	information	No information available	No information available	-
12.5.	Results of PBT and vPvB assessme	ent				
	Material does not meet the Reach	n Annex XIII	criteria for PB	T or vPvB.		
12.6.	Endocrine disrupting properties					
	No known endocrine disrupting p	properties th	hat affect the e	environment.		
12.7.	Other adverse effects					
	No adverse effects are expected.					
	<u>į </u>					
SECTIO	N 13. Disposal considerations					
13.1.	Waste treatment methods					
13.1.1.	Product/Packaging disposal:					
	Submit for disposal to the le Protection. Do not dispose of the collectors authorized by the mir	he product's	s remains into	the sewage s	ystem. Submit the re	mains to the
13.1.2.	Waste codes/waste designation	s according	to Law:			
	The European Waste Catalogu constituents. Determine the EW the hazardous waste list establis	C according	to the criteria	provided in th	ie European Waste Ca	
13.1.3.	Waste treatment – relevant info					
	Disposal recommendations base applicable laws and regulations,		• •	•		vith current
13.1.4.	Sewage disposal – relevant info	rmation:				
	Product is suitable for burning i incineration at very high temper	n an enclos				-
13.1.5.	Other disposal recommendation	15.				



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

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Trade na	Trade name: BIOMOUNT NEW LOW					
Product	code:	BMNL-X**	Date of compilation: 14 November 2022 Version: 4			
	dangero be comp should b in accord GRIND,	us. Do not attempt pletely drained and so taken for recyclin dance with governn OR EXPOSE SUCH	(where applicable): Empty containers may contain residue and can be to refill or clean containers without proper instructions. Empty drums should safely stored until appropriately reconditioned or disposed. Empty container g, recovery, or disposal through suitably qualified or licensed contractor and nental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER EY MAY EXPLODE AND CAUSE INJURY OR DEATH.			
13.1.6.	Relevant	Community provis	ions:			
	-					
SECTION	N 14. Trans	sport information				
	Transporti	ng/shipment by roa	ad (ADR)			
UN num	ber:		Not subject to transport regulations.			
UN prop	er shipping	g name:	-			
Transpor	t hazard cl	ass(es):	-			
Packing	group:		-			
Environm	nental haza	ards:	-			
Special p	precautions	for user:	-			
	Transporti	ng/shipment by rail	(RID)			
UN numl	ber:		Not subject to transport regulations.			
	er shipping		-			
-	t hazard cl	ass(es):	-			
Packing	group:		-			
Environm	nental haza	ards:	-			
	precautions		-			
	Transporti	ng/shipment by inla	and waterways (ADN)			
UN numl			Not subject to transport regulations.			
•	er shipping		-			
•	t hazard cl	ass(es):	-			
Packing	-		-			
	nental haza		-			
	precautions		-			
	•	ng/shipment by sea				
UN numl			Not subject to transport regulations.			
	er shipping		-			
	t hazard cl	ass(es):	-			
Packing	group:		-			



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Trade name:		BIOMOUNT NEW LOW	
Product code:	BMNL-X**	Date of compilation: 14 November 2022	Version: 4
Environmental haz	ards:	-	
Special precaution	s for user:	-	
Transport in bulk according to Annex II o MARPOL73/78 and the IBC code:		-	
Transport	ing/shipment by air (IC	CAO-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: -	

5.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorisations and/or res	strictions on use
	Authorisations:	-
	Restrictions:	-
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certair dangerous substances, mixtures and articles (Annex XVII);



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Trade name: Product code:		BIOMOUNT NEW LOW				
		BMNL-X**	Date of compilation: 14 November 2022	Version:	4	
	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	mical safety assessment				
	-					

SECTION 16. Other information					
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	ication	Classification procedure			
-		-			
16.5.	Relevant H statements (number and full text)				
	H: 304	May be fatal if swallowed and enters airways.			
	(EUH066)	Repeated exposure may cause skin dryness or cracking.			
16.6.	Training advice:	-			
16.7.	Further information:	 ** "X" in the product code marks different volumes (different packaging of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. 			

ANNEX: Exposure scenario resulting to Chemical safety assessment

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