

LEUKOGNOST SPENSE

The kit contains:

Reagent 1 (Sodium nitrite, solution)

Reagent 2 (Fast Blue RR/Fast Garnet GBC, solution)

Reagent 3 (SPE buffer)

Reagent 4 (SPE substrate)

Reagent 5 (Fast Garnet GBC, solution)

Reagent 6 (NSE buffer)

Reagent 7 (NSE substrate)

Reagent 8 (NSE inhibitor)

Reagent 9 (Methyl Green, solution)



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Trading name:	SODIUM NITRITE, SOLUTION				
Product code:	NAN-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

1.1.	Product identifier				
	Trading name:	SODIUN	и NITRITE, SOLU	ITION	
	Chemical name:	-			
	Catalogue number:	NAN-O	T-X**		
1.2.	Relevant identified uses of the substance or mixture and uses advised against			ture and uses advised against	
	Uses:		For use in cyt	ochemical diagnostics.	
	Uses advised against:		Only the iden	tified uses are advised.	
	Reason why uses advi	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 supplie	r of the saf	ety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska !	59, Zagreb	
	Telephone number:		+385 1 2409997		
	Telephone number:		+385 1 240999	97	
	Telephone number: Fax no.:		+385 1 240999 +385 1 240403		
	•	oerson:		39	
	Fax no.:	person:	+385 1 240403	39	
1.4.	Fax no.: e-mail of competent		+385 1 240403 msds@biogno	39	
1.4.	Fax no.: e-mail of competent National contact:	number	+385 1 240400 msds@biogno	39	
1.4.	Fax no.: e-mail of competent National contact: Emergency telephone	number	+385 1 240400 msds@biogno	ost.hr	

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regula	ation (EC) No 1272	2/2008 (CLP)			
	Hazard class and category	/ code:		Hazard statements*:		
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For fu	Ill text of Hazard- and EU Hazard-st	atements: see Sec	tion 16			
2.2.	Label elements					
	Product identification:	SODIUM NITRIT	TE, SOLUTION			
	Identification number:	-				
	Authorization no.:	_				
	Hazard pictograms:	-				



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Further information:	-		
2.3.	Other hazards			
	Endocrine Disrupting Properties:			
	No known endocrine disrupting properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.			

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)		
7632-00-0/ 231-555-9/ 007-010-00-4	01-2119471836- 27	<5%	sodium nitrite	Ox. Sol. 3; H272 Acute Tox. 3; H301 Eyelrrit.2A; H319 Aquatic Acute 1; H400		

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	-			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.			
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.			
	Self-protection of the first aider	: Treat symptomatically.			
4.2.	Most important symptoms and	effects, both acute and delayed			
	EUIIUMING INNSISTION.	ccording to our findings, chemical, physical and toxicological properties of ne substance have not been entirely tested.			



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	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
4.3.	Indication of any immediate	e medical attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water 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 of Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. ofire with water spray or vapor.			
5.4.	Additional information				
	Remove sources of heat and igniti	on.			
	Do not contaminate the environm	ent 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).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containr	ment and cleaning up			



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6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

SECTIO	ON 7. Handling and 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: Other measures:	Prevent spilling into the sewage system and waterways.				
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.	2. Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.				
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).				
7.3.	Specific end use(s)					



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Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection								
8.1. Control	parameters		_					
Substance CAS N		١o		•	exposure limit t term values	Biological limit values		
				þ	ppm	mg/m³		
-		-			-	-	No information available	
Substance name:								
EC No: -		CAS No:	-					
DNEL								
				Ind	lustrial			
Route of	A	Acute		Acute	9	Chronic	Chronic	
exposure:	effe	ect local	effe	ct syst	temic	effect local	effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			_	-	
Critical physical p	arameters: s	solubility, fla	mmabilit	y, corr	rosivity:	-		
				Cor	sumer		I	
Route of		Acute		Acute		Chronic	Chronic	
exposure:	effe	ect local	effe	effect systemic		effect local	effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC								
Environmental pro	otection tar	get			PNEC			
Fresh water					No information available			
Freshwater sediments						mation available		
Marine water					No information available			
	Marine sediments					mation available		
Food chain					No information available			
Microorganisms i		eatment				mation available		
Soil (agricultural)					No information available			



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Air			No information available			
8.2.	Exposure controls					
8.2.1.	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 prexposure:	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 equip	oment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (E visor.				
8.2.2.2.	Skin protection					
U.L.L.	Hand protection:		tective gloves must be according to the EU Directive 2016/425/EEC and and EN 374. Glove material: nitrile rubber			
			Glove thickness: ≥0.50 mm Break through time: >480 min			
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter fo	ctive full face mask (EN 136) or half mask (EN 140) equipped with a cor organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	ormation available			
8.2.3.	Environmental exposure	controls				
	Substance/mixture relate measures to prevent expe		See Section 6			
	Structural measures to prexposure:	event	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			

SECTION 9. Physical and chemical properties



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	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	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
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
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
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			
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008		



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Acute toxi	city:			1	
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	e Results
Oral exposure:	No information available	-	LD ₅₀	_	_
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	_	_
Specific ta	rget organ toxicity – s	ingle exposure	(STOT SE):		
	Specific		Target organ		Note
Oral exposure:	No information		No information available	–	
Dermal exposure:	No information	available	No information available	-	
nhalation exposure: No information available			No information		
Inhalation exposure	e: No information	available	available	-	
Inhalation exposure	e: No information	available		-	
•	y irritation:			-	
•			available	-	
Respirator			available	-	
Respirator	y irritation:		available	Method	Note
Respirator	y irritation: and corrosion	No inf	available ormation available		Note -
Respirator Irritation a	y irritation: and corrosion	No info	available ormation available Evaluation		
Respirator Irritation a Skin irritation:	y irritation: Ind corrosion Exposure time	No info	available ormation available Evaluation -	Method -	-
Respirator Irritation a Skin irritation:	y irritation: Ind corrosion Exposure time -	No info	available ormation available Evaluation -	Method -	-
Respirator Irritation a Skin irritation: Eye irritation: Sensitization	y irritation: Ind corrosion Exposure time -	Species	available ormation available Evaluation -	Method -	-
Respirator Irritation a Skin irritation: Eye irritation:	y irritation: Ind corrosion Exposure time	Species lable	available ormation available Evaluation -	Method -	-
Respirator Irritation a Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure:	y irritation: Ind corrosion Exposure time On No information avai No information avai	Species lable	available ormation available Evaluation -	Method - -	-
Respirator Irritation a Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure: Symptoms	y irritation: Ind corrosion Exposure time On No information avai No information avai	Species lable lable	available ormation available Evaluation	Method - -	-
Respirator Irritation a Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure: Symptoms Oral exposure:	y irritation: Ind corrosion Exposure time On No information avai No information avai	Species	available ormation available Evaluation	Method - -	-
Respirator Irritation a Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure:	y irritation: Ind corrosion Exposure time on No information avai No information avai Ro information avai No information a	Species	available ormation available Evaluation	Method - -	-



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

Specific target organ toxicity – repeated exposure (STOT RE):					
	Specific effects	Target organ	Note		
Subacute oral	No information available	No information available	-		
Subacute dermal	No information available	No information available	-		
Subacute inhalation	No information available	No information available	-		
Subchronic oral	No information available	No information available	-		
Subchronic dermal	No information available	No information available	-		
Subchronic inhalation	No information available	No information available	-		
Chronic oral	No information available	No information available	-		
Chronic dermal	No information available	No information available	_		



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Chronic	inhalation	No informat	tion available	No information available	-
	CMR effects (c	carcinogenicity	. mutagenicity	, reproductive toxicity)	
	Carcinogenicit			available data, the classification criteria	are not met.
	Mutagenicity i	in-vitro:	Based on	available data, the classification criteria	are not met.
	Genotoxicity:		Based on	available data, the classification criteria	are not met.
	Mutagenicity i			available data, the classification criteria	
	Germ cell mut			available data, the classification criteria	
	Reproductive :	toxicity:	Based on	available data, the classification criteria	are not met.
11.2	Summary of e			ties: -	
11.2.1.	Endocrine disr				
		nce/mixture ponents con ne disrupting REACH Artic Delegated regi	does not sidered to properties le 57(f) or ulation (EU) Regulation		
11.2.2.	Other informa	tions:	:		
	-				

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	-	_	-	-



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

12.2. Persistence and degradability

Abiotic degradation

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

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RIOO	laara <i>t</i>	1ation
DIOU	i c qi at	dation

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

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water (log Kow):

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

Bioconcentration factor (BCF)



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'	√alue		Species	V	lethod		Evaluation		Note	
	No information No informati available available		on No information available		No information available	No information available		ailable		
	Chronic	ecotoxic	ity							
	Value		Dose	Exposure time	Spec	cies	Method	Evalua	tion	Note
Chroni	c toxicity o	on fish	LC ₅₀	No information available	No inform availab		No information available	No inform available	No information available	
	c toxicity o		EC ₅₀	No information available	No inform availab		No information available	No inform available	nation	-
12.4.	Mobility	, in soil								
			ted distributi	on in environn	nental co	mpart	ments:			
	Known			on in environn	nental co	mpart	ments:			
	Known	or predic		on in environn	nental co	ompart	ments:			
	Known o	or prediction at tension:		on in environn		ompart	ments:			Note
	Known of No infor	or prediction attension: e N tion in	available °C		ation			able	-	Note
	Known of No information of No	or prediction attension: e N tion in	°C lo nformation	Concentra No informa	ation		Method	able	-	Note
	No infor Surface Valu No informat available	or prediction attension: e N tion in	°C lo nformation vailable	Concentra No informa	ation		Method	able	-	Note
Transp	No information available	or prediction attension: e Notion in an	°C lo nformation vailable corption	Concentra No informa	ation	No inf	Method		thod	Note
	No information available ort	or prediction attension: e tion in attension in attension / des A/D coe Henry's of	°C lo nformation vailable corption	Concentra No informa available	ation ation on No	No inf	Method formation avail		thod	
Transp	Known of No information available ort No ater No available No available No available No available No available No ater No available No	ion / des A/D coe Henry's o	°C lo nformation vailable corption efficient constant	Concentra No informa available log Kow No informati	on No avai	No inf	Method formation avail ration rate	Met No inform	thod	



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12.5. Results of	PBT and vPvB assessm	ent			

12.5.	Results of PBT and vPvB assessment
12.3.	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.
12.6.	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
	No information available
	TVO INTOTITUDON AVAILABLE
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.	Waste deather methods
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 designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:



SAFETY DATA SHEET

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

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SECTION 14. Transport information	
Transporting/shipment by road	(ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	IID)
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 (II	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-



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Special precautions for user:		-
Further information:	_	

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 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 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessme	ent			
	None				

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



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Trading name:		SODIUM NITRITE,	SOLUTION		
Product code:	NAN-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

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)	
Classifi	cation	Classification procedure	
_		-	
16.5.	Relevant H statements (numb	er and full text)	
	272	May intensify fire; oxidizer.	
	H: 301	Toxic if swallowed.	
	319	Causes serious eye irritation.	
	400	Very toxic to aquatic life.	
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.	

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Δ	NI	Ν	_	44
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Exposure scenario resulting to Chemical safety assessment



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Trading name:	FAST BLUE RR/FAST GARNET GBC, SOLUTION				
Product code:	FBFG-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	Product identifier			
	Trading name:	FAST BLUE	RR/FAST (GARNET GBC, SOLUTION	
	Chemical name:	-			
	Catalogue number:	FBFG-OT-X	**		
1.2	Relevant identified use	s of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	in cytochemical diagnostics.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against: medical device, registered at the Age		duct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection 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 Regu	ulation (EC) No 12	772/2008 (CLP)			
	Hazard class and catego	ory code:	Hazard statements*:			
	Acute Tox. 4		H302			
	Acute Tox. 4		H332			
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	FAST BLUE RR/F	AST GARNET GBC, SOLUTION			
	Identification number:	-				
	Authorization number:	-				



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Trading name:	FAST BLUE RR/FAST GARNET GBC, SOLUTION				
Product code:	FBFG-OT-X**	Date of compilation:	14 November 2022	Version:	2

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statements:	H302 Harmful if swallowed.
	Precautionary statements:	 P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Propertion No known endocrine disrupting	

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)			
111-46-6/ 203-872-2/ 603-140-00-6	01-2119457857-21- XXXX	>50%	diethylene glycol	Acute Tox. 4; H302			
7647-01-0/ 231-595-7/ 017-002-00-2	-	<4%	hydrochloric acid	Skin Corr. 1A; H314 STOT SE 3; H335			

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.			
	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:	FAST BLUE RR/FAST GARNET GBC, SOLUTION				
Product code:	FBFG-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 oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.	
	Self-protection of the first aider:	-	
4.2	Most important symptoms and effects, 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:	Danger of gastric perforation.	
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, CO2 Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	Water with full 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.				
5.4	Additional information				
	Do not contaminate the environment	ent with extinguishing media.			

SECTIO	ON 6. Accidental release measure	es
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:	FAST	BLUE RR/FAST GARNE	T GBC, SOLUTION		
Product code:	FBFG-OT-X**	Date of compilation:	14 November 2022	Version:	2

	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.
	Emergency procedures:	Mark the area using proper signs.
6.1.2.	For emergency responders:	
	Use protective equipment; in a (see Section 8).	case of inadequate ventilation use adequate airways protective equipment
6.2	Environmental precautions:	
	Do not dispose of in sewage, or Protection and Rescue Director	drainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.
6.3	Methods and material for con	tainment and cleaning up
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.
6.3.2.	Cleaning up:	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 involved materials with water.
6.3.3.	Other information:	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 inf	ormation.

SECTIO	ON 7. Handling and storage		
7.1	Precautions for safe handling		
7.1.1.	Protection measures		
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat.
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.
	Other measures:		-
7.1.2.	Advice on general occupational hygiene:		
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.
7.2	Conditions for safe storage, including any incom	npatibilities	
	Technical measures and storage conditions:		htly closed and upright set containers at res ranging from +2 to +8 °C.



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Trading name:	FAST	BLUE RR/FAST GARNE	T GBC, SOLUTION		
Product code:	FBFG-OT-X**	Date of compilation:	14 November 2022	Version:	2

	Packaging materials:	Manufacturer's original packaging. Avoid metal containers.
	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. Ex	posu	re contr	ols/perso	nal p	rotecti	ion					
8.1 Contro	ol para	ameters									
Substa	ance		CA	S No		•		•	sure limit values	Ві	ological limit values
						рр	m	r	ng/m³		
-				-		-			-	No	information available
Substance nam	ne:	_									
EC No:		_	CAS No	:	-						
DNEL											
						Indus	trial				
Route of		Acı	ıte		Acute	;		Ch	ronic		Chronic
exposure:		effect	local	effe	ct syst	emic		effe	ct local		effect systemic
Oral	-	-		-			-			-	
Inhalation	-	-		-			-			-	
Dermal	-	-		-			-			-	
Critical physica	l para	meters: s	olubility,	flamm	nability	, corros	sivity:		-		
						Consu	ımer				
Route of		Acı	ute		Acute	9		Ch	ronic		Chronic
exposure:		effect	local	effe	ect syst	temic		effe	ct local		effect systemic
Oral		-		-			-			-	
Inhalation		-		-			-			-	



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Trading name:	F/	AST BLUE RR/FAST GARNI	ET GBC, SOLUTION		
Product code:	FBFG-OT-X**	Date of compilation:	14 November 2022	Version:	2
	T T		1		

Dermal	_				
PNEC	·				
Environme	ental protection target		PNEC		
Fresh wate	er		no information available		
Freshwate	r sediments		no information available		
Marine wa	ter		no information available		
Marine sed	diments		no information available		
Food chair	า		no information available		
Microorga	nisms in sewage treatment		no information available		
Soil (agricı	ultural)		no information available		
Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering contro	ols			
	Substance/mixture related mea		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to pre exposure:	event	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent	exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	levels	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection				
	Hand protection:	Protec	tive nitrile gloves, >0.11 mm thick (EN 374).		
	Other skin protection:		Intistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 340) and shoes that cover the entire foot.		
8.2.2.3.	Respiratory protection:	Not re	quired under normal conditions of use. Use suitable tory protective device when high concentrations are		
8.2.2.4.	Thermal hazards:		ormation available		
8.2.3.	Environmental exposure contro	nlc			



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Trading name:	FAST	BLUE RR/FAST GARNE	T GBC, SOLUTION		
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Substance/mixture related measures to prevent exposure:	See Section 6
Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

	Information on basic physical and	chemical properties			
		Value	Method		
	Physical state:	liquid	Visual inspection		
	Colour:	brownish	Visual inspection		
	Odour/odour threshold:	odourless/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		
	Lover and upper explosion limit:	No information available	No information available		
	Flash point:	No information available	No information available		
	Auto-ignition temperature:	No information available	No information available		
	Decomposition temperature:	No information available	No information available		
	pH:	No information available	No information available		
	Kinematic viscosity:	No information available	No information available		
	Solubility:	No information available	No information available		
	Partition coefficient noctanol/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		
<u> </u>	Other information				

SECTION 10. Stability and reactivity



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Trading name:	FAST	FAST BLUE RR/FAST GARNET GBC, SOLUTION					
Product code:	FBFG-OT-X**	Date of compilation:	14 November 2022	Version:	2		

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:	No information available
10.5	Incompatible materials:	No information available
10.6	Hazardous decomposition products:	No information available

11.1 Inform	ation on toxicolo	gical effects					
Acute 1	toxicity:						
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure t	ime Res	sults
Oral:	-	No information available		-	No information	on	_
Dermal:	-	No information available		-	No information	on	-
Inhalation:	tion: - No information available			-	No information	on	-
Specifi	c target organ to	xicity – single expo	sure (ST	OT SE):		:	
	Specific effects		Target organ		Note		
Oral:	No information available		No information available			-	
Dermal:	No informa	tion available	No information available			_	
Inhalation:	No informa	tion available		No information a	available	-	
Aspirat	ion hazard:	N	o inform	ation available.			
Irritatio	on and corrosion						
		osure time	Specie	s Evaluati	on Method	l Note	<u> </u>
Skin corrosion/irritat	ion:	-	·	-	-	-	
Serious eye damage/irritatio	on -	-		-	-	-	
Sensiti	i	1		i	1	!	
Skin sensitizatio	ın· -						



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Trading name:	FAST	BLUE RR/FAST GARNE	T GBC, SOLUTION		
Product code:	FBFG-OT-X**	Date of compilation:	14 November 2022	Version:	2

Sympto	ms related to the pl	nysical, chemic	al and toxicolog	ical characterist	ics	
Oral exposure:	No informati	on available.				
Dermal exposure	: No informati	on available.				
Inhalation expos	ure: No informati	on available.				
Eye exposure:	No informati	on available.				
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)	1		1
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	_
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	_
Subchronic oral	No information available	No information available	No information available	No information available	No information available	—
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	_
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	_
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	_



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Trading name:	FAST	FAST BLUE RR/FAST GARNET GBC, SOLUTION						
Product code:	FBFG-OT-X**	Date of compilation:	14 November 2022	Version:	2			

		Specific effects		Target organ	Note		
Subacu	te oral	No information available		No information available	-		
Subacu	te dermal	No information available		No information available	-		
Subacu	te inhalation	No information available		No information available	-		
Subchro	onic oral	No information available		No information available	-		
Subchro	onic dermal	No information available		No information available	-		
Subchro	onic inhalation	No information available		No information available	-		
Chronic	oral	No information available		No information available	-		
Chronic	onic dermal No information available			No information available	-		
Chronic	onic inhalation No information available			No information available	-		
	CMR effects (c	arcinogenicity; mutagenicity; re	productive t	toxicity)			
	Carcinogenicity:		Current studies on test animals did not indicate carcinogenic effects.				
	Mutagenicity i	n vitro:	Current in vitro tests did not indicate mutagenic effects.				
	Genotoxicity:		No information available.				
	Mutagenicity i	n vivo:	Current in vivo tests did not indicate mutagenic effects.				
	Germ cell muta	agenicity:	No information available.				
	Reproductive t	oxicity:	No toxicity reproductive	on reproductive organs was ve organs.	s determined in		
	·						
	Summary of properties:	evaluation of the CMR	No informa	ation available.			
11.2	Information or	other hazards:					
11.2.1.	Endocrine disr	upting properties:					
		ocrine disrupting properties					
11.2.2.	Other informat	tions:	<u> </u>				
	. Other informations:						

SECTION 12. Ecological information									
12.1 Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			



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Trading name:	FAST	FAST BLUE RR/FAST GARNET GBC, SOLUTION						
Product code:	FBFG-OT-X**	Date of compilation:	14 November 2022	Version:	2			

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	8 days	No information available	No information available	No information available	-
Other organisms	-	72 hours	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	_
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	_
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
12.2 Persistence a		oility				
Abiotic degra						
De	egradation h	alf-lives	Method	Evaluatio	on	Note

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

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



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Tradin	g name:	FAST BLUE RR/FAST GARNET GBC, SOLUTION										
Produc	ct code:	FBFG-	OT-X**		Date	of co	mpilatio	on: 14 No	vember	2022	Version: 2	
		i					-	į.				_
12.3	Bioaccum	ulative p	ootential									
	Octanol-v	vater pa	rtition coef	ficient ((log Kow))						
Valu	e Co	ncentra	tion p	Н	°C	М	ethod	Evalu	ation		Note	
_		nformati	ion _		_		ormation		nation	_		
	avail	able				availab	le	available				
	D:		ft- :: /DCF									
,		ntration	factor (BCF)		4 - 4		F I 4			NI-+-	
	/alue ormation	No	Species inforn		No info	Method		Evaluati		No inf	Note	
availab		availal		lation	availab		ווכ	No informati available	On	availal	formation ble	
					<u> </u>				i			
	Chronic e	cotoxicit	ty									
	Value		Dose		osure	Sp	ecies	Method	Evalua	ation	Note	
					ime							
Chronic	toxicity on	fish	LC ₅₀	No infor	mation	No infor	mation	No information	No informa	ation	_	
Cilionic	tomerty on		2030	avail		availa		available	availab			
Chronic	toxicity on			No		No		No	No			
	ea (<i>Daphnic</i>		EC ₅₀		mation	1	mation	information	informa		-	
<u> </u>	•			avail	аріе	availa	abie	available	availab	ie		
12.4	Mobility in	n soil										
12.4			ed distribut	ion in (nvironm	ontal (compart	monts:				
	No inform	···		1011 111 6	ZIIVII OI III	ientar	Compart					
	Surface te		valiable									
	Value	1131011.	°C		oncentra	ntion		Method			Note	_
	No	No			Oncentra	111011		Method			Note	
	information		formation		informa	tion		ormation	_			
	available	av	ailable	ava	ailable		availab	лe				



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Trading name:	FAST BLUE RR/FAST GARNET GBC, SOLUTION				
Product code:	FBFG-OT-X**	Date of compilation:	14 November 2022	Version:	2

Ad	Isorption / desorption					
Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note	
Soil-water	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. Re	sults of PBT and vPvB asses	ssment				
No	information available					
1						
	docrine disrupting propert					
No	known endocrine disrupti	ng properties that	affect the environn	nent.		
12.7. Ot	her adverse effects					
No	information available					
SECTION 1	3. Disposal consideration	s				
13.1	Waste treatment methods					
13.1.1. F	Product/Packaging disposa	ŀ				
	Submit for disposal to the I		rized by the Ministr	v of Environmental	and Nature	
	Protection.	-9-				
	Waste codes/waste designa	ations according to	Law:			
	No information available					
13.1.3.	Waste treatment – relevant information:					
١	No information available					
	Sewage disposal – relevant					
\	Waste must not be dispose	d of into the sewa	ge system.			
13.1.5.		ations:				
13.1.3.	other disposal recommend	ations.				



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Trading name:	FAST	BLUE RR/FAST GARNE	T GBC, SOLUTION		
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	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.		
13.1.6.	Relevant Community pro	ovisions:	
	-		
SECTIO	N 14 TRANSPORT INFORM	MATION	
	Transporting/shipment by	road (ADR)	
UN num	nber:	Not subject to transport regulations	
UN prop	per shipping name:	-	
Transpo	ort hazard class(es):	-	
Packing	group:	-	
Environi	mentally hazardous:	-	
Special	precautions for user:	-	
	Transporting/shipment by	rail (RID)	
UN num	nber:	Not subject to transport regulations	
UN prop	oer shipping name:	-	
Transpo	ort hazard class(es):	-	
Packing	group:	-	
Environi	mentally hazardous:	-	
Special	precautions for user:	-	
	Inland waterway transport	(ADN)	
UN num	nber:	Not subject to transport regulations	
UN prop	per shipping name:	-	
Transpo	ort hazard class(es):	-	
Packing	group:	-	
Environi	mentally hazardous:	-	
Special	precautions for user:	-	
	Transporting/shipment by	sea (IMDG)	
UN num	nber:	Not subject to transport regulations	
UN prop	per shipping name:	-	
Transpo	ort hazard class(es):	-	
Packing	group:	-	
Environi	mentally hazardous:	-	
Special	precautions for user:	-	



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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



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	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessment	
	None	

SECTIO	ON 10	6. Other information				
16.1	Ind	ication of changes:	-			
16.2	Ab	breviations and acronyms:	PBT vPvB LD ₅₀ LC ₅₀ TCOJ	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:		-			
16.4.		ssification and procedure t 72/2008 (CLP)	used to derive the	e classification for mixture according to Regulation (EC)		
Classifi -	Classification C		Classification procedure			
16.5.	Rel	evant H statements (numb	er and full text)			
		302	Harmful if swallo	owed.		
	H:	314	Causes severe sk	rin burns and eye damage.		
		335	May cause respir	ratory irritation.		
16.6.	Tra	ining advice:	-			
			** "X" in the proo	duct code marks different volumes (different packagings of		
16.7.	Fur		instructions for u	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:	SPE BUFFER				
Product code:	FOP-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

1.1.	Product identifier			
	Trading name:	SPE BL	JFFER	
	Chemical name:	-		
	Catalogue number:	FOP-O	T-X**	
1.2.	Relevant identified use	es of the s	ubstance or mix	ture and uses advised against
	Uses:		For use in cyt	ochemical diagnostics.
	Uses advised against:		Only the iden	tified uses are advised.
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes	
1.3.	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.	
	Address:		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997	
	Fax no.:		+385 1 24040	39
		erson:	+385 1 240403 msds@biogno	
	Fax no.:	erson:		
1.4.	Fax no.: e-mail of competent p		msds@biogno	
1.4.	Fax no.: e-mail of competent p National contact:	number	msds@biogno	
1.4.	Fax no.: e-mail of competent p National contact: Emergency telephone	number	msds@biogno	ost.hr

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 catego	Hazard class and category code: Hazard statements*:		
	Not identified as hazardous sub	stance.	-	
2.1.2.	Additional information			
	-			
*For fu	ll text of Hazard- and EU Hazard-:	statements: see S	ection 16	
2.2.	Label elements			
	Product identification:	SPE BUFFER		
	Identification number:	-		
	Authorization no.:	-		
	Hazard pictograms:	-		



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Trading name:	SPE BUFFER			
Product code:	FOP-OT-X**	Date of compilation:	21 Dec 2022	Version: 2

	Signal word:	-	
	Hazard statements:	-	
	Precautionary statements:	-	
	Further information:	-	
2.3.	2.3. Other hazards		
	Endocrine Disrupting Properties:		
	No known endocrine disrupting properties		
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is n PBT or a vPvB.		

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

SECTI	ECTION 4. First aid measures			
4.1.	Description of first aid measures			
	General notes:	-		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.		
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.		
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.		
	Self-protection of the first aid	der: Treat symptomatically.		
4.2.	Most important symptoms and effects, both acute and delayed			
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		



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	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
4.3.	Indication of any immediate medical attention and special treatment needed		
	-		

SECTIO	SECTION 5. Firefighting measures			
5.1.	Extinguishing media			
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam		
	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	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	1. For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
Wear protective equipment (see Section 8).					
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.				



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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

SECTIO	ON 7. Handling and 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: Other measures:	Prevent spilling into the sewage system and waterways.			
7.1.2.	Advice on general occupational hygiene:				
	horoughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).			
7.3.	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			



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SECTION 8. Exposur	e contr	ols/person	al protec	tion			
8.1. Control para	meters	T					
Substance		CAS I			•	exposure limit t term values	Biological limit values
					ppm	mg/m³	
-		-			-	-	No information available
Substance - name:							
EC No: -		CAS No:	-				
DNEL							
				Inc	dustrial		
Route of	A	Acute		Acut	e	Chronic	Chronic
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			<u> </u>	-
Critical physical parar	meters: s	solubility, fla	mmabilit	y, cor	rosivity:	-	
	1		_	Co	nsumer		
Route of		Acute		Acut		Chronic	Chronic
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
PNEC					I		
Environmental protect	tion tar	get			PNEC		
Fresh water					No information available		
Freshwater sediments					No information available		
Marine water					No information available		
Marine sediments					No information available		
Food chain					No information available		
Microorganisms in sewage treatment					No information available		
Soil (agricultural)					No information available		
Air					No infor	mation available	



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8.2.	Exposure controls			
8.2.1.	Engineering measures			
	Substance/mixture related measures to prevent exponential 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 prexposure:	event	No information available	
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.	
8.2.2.	Personal protection equip	ment		
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.		
8.2.2.2.	2.2. Skin protection			
	Hand protection:	1	ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min	
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).	
8.2.2.3.	Respiratory protection:	filter fo	ctive full face mask (EN 136) or half mask (EN 140) equipped with a cor organic vapors, type "A" (boiling point >65°C) according to EN) used when concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No inf	ormation available	
8.2.3.	Environmental exposure	controls		
	Substance/mixture related measures to prevent expo		See Section 6	
	Structural measures to pr exposure:	event	Use modern equipment.	
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.	
	Technical measures to pro	event	See Section 6	

SECTIO	SECTION 9. Physical and chemical properties				
9.1.	Information on basic physical and chemical properties				
		Value	Method		



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Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	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
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
рН:	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
Relative vapour density:	No information available	No information available
 Particle characteristics:	No information available	No information available
Other information		

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

SECTIO	SECTION 11. Toxicological information				
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008				
	Acute toxicity:				



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Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	_	LD ₅₀	_	_
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	-
Specific tar	get organ toxicity – s	ingle exposure	(STOT SE):		
· ·	Specific	effects	Target organ		Note
Oral exposure:	No information		No information available	_	
Dermal exposure:	No information	available	No information available	-	
Inhalation exposure:	No information	available	No information available	-	
Irritation ar	nd corrosion				
	Exposure time	Species	Evaluation	Method	Note
Skin irritation:	-	-	-	-	-
Eye irritation:	-	-	-	-	-
Sensitizatio	n				
Dermal exposure:	No information avai	lable			
Dermai exposure.	No information available				
Inhalation exposure:	No information avai	lable			
Inhalation exposure:			d toxicological characterist	ics	
Inhalation exposure:		al, chemical an	d toxicological characterist	ics	
Inhalation exposure: Symptoms	related to the physic	al, chemical an vailable	d toxicological characterist	ics	
Inhalation exposure: Symptoms Oral exposure:	related to the physic No information a No information a	al, chemical an vailable vailable	d toxicological characterist	ics	

Repeated dose toxicity (subacute, subchronic, chronic)



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

Specific target	organ toxicity – repeated expo	Jane (3101 NL).	
	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	-



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Chronic	inhalation	No informat	ion available	No information available	-
	CMR effects (c	arcinogenicity	. mutagenicity	, reproductive toxicity)	
	Carcinogenicit			available data, the classification criteria a	are not met.
	Mutagenicity i	n-vitro:	Based on	available data, the classification criteria a	are not met.
	Genotoxicity:		Based on	available data, the classification criteria a	are not met.
	Mutagenicity i			available data, the classification criteria a	
	Germ cell mut			available data, the classification criteria a	
	Reproductive	toxicity:	Based on	available data, the classification criteria a	are not met.
11.2	Summary of e			ties: -	
11.2.1.	Endocrine disr				
	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.				
11.2.2.	Other informa	tions:			
	_				

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	-	_	-	-



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

12.2. Persistence and degradability

Abiotic degradation

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

D: 1		
RION	aaraa	dation
DIOU	cyrac	aation

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

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water (log Kow):

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

Bioconcentration factor (BCF)



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	Value		Species	Me	ethod	Evaluation		Note	
No information available		No avai	informati lable	on No inform available			No information available		ilable
	Chronic	ecotoxi	city						
	Value		Dose	Exposure time	Species	Method	Evaluati	ion	Note
Chroni	ic toxicity (on fish	LC ₅₀	No information available	No information available	No information available	No informa available	ation	-
	ic toxicity o		EC ₅₀	No information available	No information available	No information available	No informa available	ation	-
12.4	N.A I- 1114	,							
12.4.		y in soil or predi	cted distributi	on in environm	ental compart	tments:			
12.4.	Known	or predi		on in environm	ental compart	tments:			
12.4.	Known o	or predi rmation	available	on in environm	ental compart	tments:			
12.4.	Known on the No info	or predi rmation tension	available						Note
12.4.	Known o	or predi rmation tension ie	available :	Concentrat No informat available	ion	Method formation avail	able		Note
Transp	No info Surface Valu No informa available	or predi rmation tension ie e tion / de	available :	Concentrat	ion No inf	Method formation avail	able	-	Note
	No informa available Adsorpt	or predi rmation tension ie ition i e i	available :	Concentrat No informat available	ion No inf	Method formation avail ration rate		- nod	
Transp	No informal available Adsorpt ater Adsorpt No	or predi rmation tension ie ition / de A/D co Henry's	available C No information available esorption pefficient s constant	Concentrate No informate available log Kow	ion No inf Evapo No inform available	Method formation avail ration rate	Meth No informa	- nod ation	Note



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:					

12.5.	Results of PBT and vPvB assessment
	No information available
12.6.	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
	No information available
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
1212	
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
13.1.1.	Waste must not be disposed of into the sewage system.
	Tradition in a subposed on lines and some age systems
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:
	-
SECTIO	N 14. Transport information
	Transporting/shipment by road (ADR)



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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 (R	ID)
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 (IN	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (IC.	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-



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Further information:	-

15.1.	Safety, health and environ	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or rest	rictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	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 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)					
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessme	ent				
	None					

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



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

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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SECTI 1.1	Product identifier						
	Trading name:	SPE SUBSTR	RATE				
	Chemical name:	-	-				
	Catalogue number:	NASD-OT->	NASD-OT-X**				
1.2	Relevant identified us	es of the subs	tance or m	nixture and uses advised against			
	Uses:		For use i	in cytochemical diagnostics.			
	Uses advised against:		Only the	identified uses are advised.			
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic gainst: medical device, registered at the Agency for Medicinal Products Medical Devices and there is no reason to use it for other purposes.				
1.3	Details of the supplier	of the safety	data shee	t			
	Supplier:		BioGnost Ltd. Medjugorska 59, Zagreb				
	Address:						
	Telephone number:	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039 <u>msds@biognost.hr</u>				
	e-mail of competent p	person:					
	National contact:		_				
1.4	Emergency telephone	number					
	National Protection a	nd Rescue Dire	ectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance	Classification of the substance or mixture				
2.1.1	Classification according to Reg	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and catego	ory code:	Hazard statements*:			
	Acute Tox. 4 H312					
	Eye Irr. 2 H319					
	Acute Tox. 4 H332					
	Repr. 1B		H360D			
2.1.2.	Additional information					
	-					
*For fu	full text of Hazard- and EU Hazard-statements: see SECTION 16					
2.2	Label elements					
	Product identification:	SPE SUBSTRATE				



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	Identification number:	-
	Authorization number:	-
	Hazard pictograms:	GHS08 GHS07
	Signal word:	Danger
	Hazard statements:	 H312 Harmful in contact with skin. H319 Causes serious eye irritation. H332 Harmful if inhaled. H360D May damage the unborn child.
	Precautionary statements:	P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P302 + P352 IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	
	No known endocrine disruption Results of PBT and vPvB ass PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

SECTION 3. Cor	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
68-12-2/ 200-679-5/ 616-001-00-X	-	95 – 100 %	dimethyl formamide	Acute Tox. 4; H312 Eye Irr. 2; H319 Acute Tox. 4; H332 Repr. 1B; H360D			

SECTION 4. First aid measures

4.1 Description of first aid measures



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Following inhalation: ventilated area or out for fresh air provide the afflicted person with Remove contaminated clothing. I water for at least 20 minutes. See of irritation remain. Rinse out with plenty of water wit least 20 minutes. If the symptoms ophthalmologist. Rinse the oral cavity, drink 1-2 glastical provides the afflicted person with provide the afflicted person with person with material provides the afflicted person with provide the afflicted person with material provides the afflicted person with provide the afflicted person with material provides the afflicted person with provide the afflicted person with material provides the afflicted person with provide the afflicted person with provide the afflicted person with material provides the afflicted person with	es do not prove sufficient, seek
Following skin contact: water for at least 20 minutes. See of irritation remain. Rinse out with plenty of water wit least 20 minutes. If the symptoms ophthalmologist. Following ingestion: Following ingestion: Self-protection of the first aider: Most important symptoms and effects, both acute and delayed Following inhalation: Depending on concentration and mucosa irritation, cough, and dys Depending on concentration and irritation, rash, skin drying and sk Following eye contact: Depending on concentration and irritation, rash, skin drying and sk Depending on concentration and irritation, tearing, redness and pa	_
Following eye contact: least 20 minutes. If the symptoms ophthalmologist.	mmediately wash with plenty of k medical assistance if the symptoms
Following ingestion: physician and show the container quantities, transport the afflicted Self-protection of the first aider: Most important symptoms and effects, both acute and delayed Following inhalation: Depending on concentration and mucosa irritation, cough, and dys Depending on concentration and irritation, rash, skin drying and sk Following eye contact: Depending on concentration and irritation, tearing, redness and pa	th the eyelid held wide open for at sremain, immediately call in
4.2 Most important symptoms and effects, both acute and delayed Following inhalation: Depending on concentration and mucosa irritation, cough, and dys Depending on concentration and irritation, rash, skin drying and sk Depending on concentration and irritation, rash, skin drying and sk Depending on concentration and irritation, tearing, redness and pa	asses of water. Immediately consult a or label. In case of swallowing large person to the hospital.
Following inhalation: Depending on concentration and mucosa irritation, cough, and dys Depending on concentration and irritation, rash, skin drying and sk Depending on concentration and irritation, rash, skin drying and sk Depending on concentration and irritation, tearing, redness and pa	
Following inhalation: mucosa irritation, cough, and dys Depending on concentration and irritation, rash, skin drying and sk Depending on concentration and irritation, tearing, redness and pa	
Following skin contact: irritation, rash, skin drying and sk Depending on concentration and irritation, tearing, redness and pa	
irritation, tearing, redness and pa	
Following ingestion: Danger of gastric perforation.	
4.3 Indication of any immediate medical attention and special treatment	needed

SECTI	CTION 5. Firefighting measures					
5.1	Extinguishing media	Extinguishing media				
	Suitable extinguishing media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2)					
	Unsuitable extinguishing media: Do not use a heavy water stream.					
5.2	Special hazards arising from the substance or mixture					
	Hazardous combustion products: Carbon oxides, sodium oxides. Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.					
5.3	Advice for firefighters					
	Use a self-contained open-circuit	compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information					
	Do not contaminate the environm	ent with extinguishing media.				

SECTION 6. Accidental release measures



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6.1	Personal precautions, protecti	ve equipment and emergency procedures	
6.1.1.	For non-emergency personne		
	Protective equipment:	Use personal protective equipment (see Section 8).	
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.	
	Emergency procedures:	Mark the area using proper signs.	
6.1.2.	For emergency responders:		
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).		
6.2	Environmental precautions:		
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.		
6.3	Methods and material for con	tainment and cleaning up	
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.	
6.3.2.	Cleaning up:	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 involved materials with water.	
6.3.3.	Other information:	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			
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat.		
	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 was	sh hands after work and before eating.		



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7.2	Conditions for safe storage, including any incon	npatibilities
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers at temperatures ranging from +2 to +8 °C.
	Packaging materials:	Manufacturer's original packaging. Avoid metal containers.
	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:	-

	ON 8. Exposi			nal pr	otection				
8.1	Control pa	rameters	_						
	Substance		CA	S No		ational e es/short	-	sure limit values	Biological limit values
					рр	m	r	mg/m³	
-				-	-			-	-
			•			•		•	
Substa	nce name:	-							
EC No:	:	-	CAS No	:	-				
DNEL			•						
					Indu	strial			
Route	of	Ac	ute		Acute		Ch	nronic	Chronic
expos	ure:	effect	local	effe	ct systemic		effe	ct local	effect systemic
Oral		-		-		-			-
Inhalat	tion	-		-		-			-
Derma	al	-		-		-			-
Critica	l physical par	ameters:	solubility,	flamm	ability, corro	sivity:		-	
					Cons	umer			



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Route of exposure		Acute effect local	Acute effect system	Chronic c effect local	Chronic effect systemic	
Oral		-	-	-	-	
Inhalation	1	-	-	-	-	
Dermal		-	-	-	-	
PNEC						
Environm	ental prot	ection target		PNEC		
Fresh wat	er			no information available		
Freshwate	er sedimer	nts		no information available		
Marine w	ater			no information available		
Marine se	ediments			no information available		
Food chai	in			no information available		
Microorg	anisms in	sewage treatment		no information available		
Soil (agric	cultural)			no information available		
Air				no information available		
0)						
	Evnoci	iro controle				
	Appro	priate engineering		•	ntilated rooms. Use personal	
	Approp Substa preven	priate engineering ince/mixture relate it exposure during	d measures to identified uses:	•	ntilated rooms. Use personal not eat, drink or smoke in the	
	Approp Substa preven	priate engineering ince/mixture relate it exposure during ural measures to pr	d measures to identified uses:	protective equipment. Do I	not eat, drink or smoke in the	
8.2.1.	Substa preven Structu exposu	priate engineering Ince/mixture relate It exposure during Irral measures to pr Irre: Isational measures	d measures to identified uses: event	protective equipment. Do not workspace. In accordance with Section	not eat, drink or smoke in the a 7. der to reduce other worker's	
	Substa preven Structu exposu Organi exposu	priate engineering Ince/mixture relate It exposure during Irral measures to pr Irre: Isational measures	d measures to identified uses: event to prevent	protective equipment. Do now workspace. In accordance with Section Organization of work in organization of work productions of work productions.	not eat, drink or smoke in the not eat, drink or smoke in the not	
	Substa preven Structu exposu Organi exposu	priate engineering ince/mixture relate it exposure during ural measures to pr ure: isational measures ure:	d measures to identified uses: event to prevent event event event event event event event event event exposure:	protective equipment. Do now workspace. In accordance with Section Organization of work in organization of work processes with Secure proper workspace workspace workspace with Secure proper with Secure proper with Secure proper workspace with Secure proper w	not eat, drink or smoke in the 7. der to reduce other worker's cess. ventilation in order to keep below permitted levels. Secure	
8.2.1.	Substa prevent Structu exposu Organi exposu Techni	priate engineering Ince/mixture relate It exposure during Irral measures to pr Irre: Isational measures Irre: Irre: Irrai measures Irre:	d measures to identified uses: event to prevent event event event Safety levels of	protective equipment. Do now workspace. In accordance with Section Organization of work in organization of work in organization of work processed or workspace workspace workspace workspace workspace workspace or concentration levels in air lestations for rinsing eyes and glasses that stick to face (EN	not eat, drink or smoke in the not eat, drink or smoke in the not at the note of the worker's cess. Wentilation in order to keep below permitted levels. Secure not showering. July 166) or visor in case of lower ective gas mask that covers the	
8.2.1. 8.2.2. 8.2.2.1.	Substa prevent Structu exposu Organi exposu Techni Person	priate engineering Ince/mixture relate It exposure during Irral measures to pr Irre: Isational measures Irre: Ical measures to pr Irral measures to pr Irral measures Irral measures	d measures to identified uses: event to prevent event event event Safety levels of	protective equipment. Do now workspace. In accordance with Section Organization of work in organization of work in organization work processed by the secure proper workspace workspace workspace workspace workspace in air lations for rinsing eyes an organization of secure proper workspace worksp	not eat, drink or smoke in the not eat, drink or smoke in the not a factor of the reduce other worker's cess. Wentilation in order to keep below permitted levels. Secure not showering. June 166) or visor in case of lower ective gas mask that covers the	
8.2.1.	Substa prevent Structu exposu Organi exposu Techni Person Eye and Skin pr	priate engineering Ince/mixture relate It exposure during Irral measures to pr Irre: Isational measures Irre: Ical measures to pr Irral measures to pr Irral measures Irral measures Irral measures to pr Irral protection equip	d measures to identified uses: event to prevent event event event Safety levels of entire event	protective equipment. Do now workspace. In accordance with Section Organization of work in organization of work in organization work processed by the secure proper workspace workspace workspace workspace workspace in air lations for rinsing eyes an organization of secure proper workspace worksp	not eat, drink or smoke in the not eat, drink or smoke in the not at the not eat, drink or smoke in the not eat, drink or sm	



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8.2.2.3.	Respiratory protection:	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	Visual inspection
	Colour:	colourless	Visual inspection
	Odour/odour threshold:	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
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient noctanol/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



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9.2	Other information
	-

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

11.1	Information	on toxicolo	gical effects					
	Acute toxici		<u>g </u>					
Route exposu		Method	Species	Dos	e LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure t	ime	Results
Oral:		_	No information available		-	No information available		-
Derma	l:	-	No information available		-	No information	on	-
Inhalat	ion:	-	No information available		-	No information available		-
	Specific targ		xicity – single expos pecific effects	sure (ST	OT SE): Target	organ		Nete
			pecific effects		ranget	organ		Note
Oral:		No informa	tion available		No information	available	-	Note
Derma		No informa	tion available		No information	available available	-	Note
		No informa	tion available		No information	available available		Note
Derma		No informa No informa No informa	tion available tion available tion available		No information	available available	-	Note
Derma	ion:	No informa No informa No informa	tion available tion available tion available		No information No information No information	available available	-	Note
Derma	ion:	No informa No informa No informa nazard:	tion available tion available tion available		No information No information No information	available available	-	Note
Derma	ion: Aspiration h	No informa No informa No informa nazard:	tion available tion available tion available		No information No information No information ation available.	available available available	-	Note



Serious eye

SAFETY DATA SHEET

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damage/irritation -		-	-	-	-
Sensitization					
Skin sensitization:	-				
Respiratory sensitization:	_				

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

Repeated dose toxicity (subacute, subchronic, chronic)

: .	Dose	Exposure	Species	Method	Evaluation	Note
	2030	time	Species	Mediod	Evaluation	11010
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	-



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Chronic inhalation	No information information in			No information available	No information available	No informatio available	on -	
Speci	fic target	organ toxicit	y – repeated e	xposure (STOT	RE):			
		3	Specific effec		Target o	rgan	Not	e
Subacute oral		No informa	tion available		No information		-	
Subacute derr	nal	No informa	tion available		No information	n available	-	
Subacute inha	lation	No informa	tion available		No information	n available	-	
Subchronic or	al	No informa	tion available		No information	n available	-	
Subchronic de	rmal	No informa	tion available		No information	n available	-	
Subchronic in	nalation	No informa	tion available		No information	n available	-	
Chronic oral		No informa	tion available		No information	n available	-	
Chronic dermal No information available					No information	n available	-	
Chronic inhala	tion	No informa	tion available		No information	n available	-	
Carci Muta Genc Muta Germ Repro	CMR effects (carcinogenicity; mutagenicity; re Carcinogenicity: Mutagenicity in vitro: Genotoxicity: Mutagenicity in vivo: Germ cell mutagenicity: Reproductive toxicity: Summary of evaluation of the CMR properties:				ation available. ation available. ation available. ation available. ation available. age the unborn clation available. ation available.	nild.		
		other hazard						
		upting prope						
comp disru Articl regul	oonents coting pro e 57(f) ation (EU lation (EU	onsidered to perties acco or Commis) 2017/2100	hes not contained have endocrification to REAC sion Delegated or Commission levels of 0.1%	ne CH ed on				
11.2.2. Othe	rinformat	ions:						



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Trading name:		SPE SUBSTRATE							
Product code:	NASD-OT-X**	Date of compilation:	21 Dec 2022	Version:	2				

12.1 Toxicit	у									
Acute (short-te toxicity	rm)	Dose	Exposur time	e	Species	Method	Evalı	uation	Note	
Fish		LC ₅₀	-	-		-	-		-	
Crustacea:		EC ₅₀	-	-		-	-		-	
Algae/aquatic բ	olants	IC ₅₀	-	-		-	-		-	
Other organism	าร	-	-	-		-	-		-	
Chronic (long-t toxicity	erm)	Dose	Exposur time	e	Species	Method	Evalı	uation	Note	
Fish		LC ₅₀	96 hours		lo information vailable	No information available	No information available		-	
Crustacea:		EC ₅₀	48 hours		lo information vailable	No information available	No inforr availa	mation ible	-	
Algae/aquatic plants		IC ₅₀	72 hours		No information vailable	No information available	No inforr availa	mation ible	-	
Other organism	าร	-	-	-		-	-		-	
12.2 Persist	ence a	nd degradal	oility							
Abioti	c degra	ndation								
	De	gradation h	alf-lives	2	Method	Evaluatio	n	Note		
Marine water	No ir	nformation a	available	No information available		No information available		-		
Fresh water	No ir	nformation a	available		nformation lable	No information - available		-		
Air	No ir	nformation a	available		nformation lable	No informatio available	n	-		
Soil	No ir	nformation a	available		nformation lable	No informatio available	n	-		
Biode	gradatio	on				l .		1		
0/ Dogradati	on	Time (d	days)		Method	Evaluatio	n		Note	
% Degradation							n			



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Tradin	g name:		SPE SUBSTRATE									
Produc	ct code:	NASD	-OT-X**		Date	of co	mpilati	on: 21 De	c 2022	,	Version:	2
									······································			•
	:											
12.3	Bioaccum	ulative p	otential									
	Octanol-w	ater pa	tition coe	efficient	(log Kow)		i				
Valu	e Co	ncentra	tion	рН	°C	M	ethod	Evalu	ation		Note	
_	-		-		-	_		-		-		
	Bioconcen	tration			_					0 0 0 0 0		
	Value Species o information No information					Method		Evaluati			Note	
No into	rmation le	No availal		rmation	No info		on	No informati available	on	_		
					<u> </u>							
								!				
	Chronic ed	otoxicit	У									
	i		_	Exp	osure	C		N 4 - 4 a	F I	-4:	Niete	
	Value		Dose	t	ime	Spi	ecies	Method	Evalu	ation	Note	
.		C. I	1.6	No		No		No · · · · · ·	No			
Chronic	toxicity on	tisn	LC ₅₀	infor avail	mation able	availa	mation able	information available	informa availab		-	
<i>-</i>				No		No		No	No			
	toxicity on ea (<i>Daphnia</i>	·)	EC ₅₀	l l	mation		mation	information	informa		-	
		,		avail	able	availa	able	available	availab	le		
12.4	Mobility in		1 11									
	Known or	-		ution in (environm	nental d	compart	ments:				
	No inform		/ailable									
	Surface te	nsion:	0.0					NA 11 1			NI i	
	Value	N.I.	°C		oncentra	ition	**************************************	Method			Note	
	No information	No n inf	ormation		informa	tion		ormation	-			
	available		ailable	ava	ailable		availak	ole				



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Trading name:	SPE SUBSTRATE						
Product code:	NASD-OT-X**	Date of compilation:	21 Dec 2022	Version:	2		

	Adsorption / desorption				
Transpor	t A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wate	No information available	No information available	No information available	No information available	-
Water-ai	r No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB asses	ssment			
	No information available				
12.6.	Endocrine disrupting properti	es			
	No information available				
12.7.	Other adverse effects				
	No information available				
SECTION	l 13. Disposal consideration	s			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	l:			
	Submit for disposal to the le Protection.	egal person autho	rized by the Ministr	y of Environmental	and Nature
13.1.2.	Waste codes/waste designa	tions according to	Law:		
	No information available	<u> </u>			
13.1.3.	Waste treatment – relevant	information:			
	No information available				
13.1.4.	Sewage disposal – relevant	information:			
	Waste must not be dispose		ge system.		
			-		
13.1.5.	Other disposal recommend	ations:			



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Trading name:		SPE SUBSTR	ATE		
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	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.				
13.1.6.	Relevant Community provisions:				
	-				
SECTION	I 14. Transport information				
	Transporting/shipment by roa	d (ADR)			
UN numb	oer:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	nentally hazardous:	-			
Special p	recautions for user:	-			
	Transporting/shipment by rail	(RID)			
UN numb	per:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	nentally hazardous:	-			
Special p	recautions for user:	-			
	Inland waterway transport (AD	DN)			
UN numb	oer:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	nentally hazardous:	-			
Special p	recautions for user:	-			
	Transporting/shipment by sea	(IMDG)			
UN numb	per:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	nentally hazardous:	-			
Special p	recautions for user:	-			



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Trading name:	SPE SUBSTRATE					
Product code:	NASD-OT-X**	Date of compilation:	21 Dec 2022	Version:	2	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

.1 Safety, health and en	rironmental regulations/legislation specific for the substance or mixture
EU regulations	
Authorization and/or	restrictions 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; 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);



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Trading name:		SPE SUBSTRA	SPE SUBSTRATE		
Product code:	NASD-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessment	
	None	

SECTION	ON 16	i. Other information					
16.1		ication of changes:	-				
16.2	Abb	previations 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.	-	literature references and rce of data:	-				
16.4.		Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classif	ication	1	Classification procedure				
_			-				
16.5.	Rele	evant H statements (numb	er and full text)				
		312	Harmful in contact with skin.				
	H:	319	Causes serious eye irritation.				
		332	Harmful if inhaled.				
		360D	May damage the unborn child.				
16.6.	Trai	ning advice:	-				
16.7.	** "X" in the product code marks different volumes (different packagings 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.						



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

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Trading name:		SPE SUBSTR	 \TE		
Product code:	NASD-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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Trading name:		SOLUTION			
Product code:	FGGBC-OT-X**	Date of compilation:	14 November 2022	Version:	2

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	FAST GARN	IET GBC, S	OLUTION	
	Chemical name:	-			
	Catalogue number:	FGGBC-OT-	X**		
1.2	Relevant identified us	Relevant identified uses of the substance or mixture and uses advised against			
	Uses:		For use	in cytochemical diagnostics.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	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:	Other information:		-	

SECTIO	N 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to F	Regulation (EC) No	1272/2008 (CLP)		
	Hazard class and category code: Hazard statements*:				
	Acute Tox. 4		H302		
	Skin Sens. 1		H317		
	Carc. 1B		H350		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Haza	ard-statements: see	e SECTION 16		
2.2	Label elements				
	Product identification:	FAST GARNET	T GBC, SOLUTION		
	Identification number:	-			



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Trading name:		FAST GARNET GBC, SOLUTION						
Product code:	FGGBC-OT-X**	Date of compilation:	14 November 2022	Version:	2			

	Authorization number:	-
	Hazard pictograms:	GHS07 GHS08
	Signal word:	Danger
	Hazard statements:	H302 Harmful if swallowed.H317 May cause an allergic skin reaction.H350 May cause cancer.
	Precautionary statements:	 P201 Obtain special instructions before use. P234 Keep only in original packaging. P280 Wear protective gloves. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately al contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Propertie	25:
	No known endocrine disrupting	properties.

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)			
111-46-6/ 203-872-2/ 603-140-00-6	01-2119457857-21- XXXX	>50%	diethylene glycol	Acute Tox. 4; H302			
97-56-3/ 202-591-2/ 611-006-00-3	-	<10%	4-o-tolylazo-o-toluidine	Carc. 1B; H350 Skin Sens. 1; H317			

SECTION 4. First aid measures

4.1 Description of first aid measures



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Product code:	FGGBC-OT-X**	Date of compilation:	14 November 2022	Version:	2	

	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.
	Self-protection of the first aider:	-
4.2	Most important symptoms and ef	fects, both acute and delayed
	Following inhalation:	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:	Danger of gastric perforation.
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, CO2 Large fire - water spray or alcohol-resistant foam		
	Unsuitable extinguishing media:	Water with full 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.			
5.4	Additional information			
	Do not contaminate the environment	ent with extinguishing media.		



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Trading name:	FAST GARNET GBC, SOLUTION					
Product code:	FGGBC-OT-X**	Date of compilation:	14 November 2022	Version:	2	

SECTIO	ON 6. Accidental release meas	ures		
6.1	Personal precautions, protective	ve equipment and emergency procedures		
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).			
6.2	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for cont	ainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using 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 involved materials with water.		
6.3.3.	Other information:	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 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				
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	-			
7.1.2.	Advice on general occupational hygiene:				



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	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers at temperatures ranging from +2 to +8 °C.				
	Packaging materials:	Manufacturer's original packaging. Avoid metal containers.				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).				
7.3	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				

SECTION 8. Exposure controls/personal protection									
8.1	Control pa	arameters							
Substance			CA	CAS No		Occupational exposure limit values/short term values			Biological limit values
						m	mg/m³		
Ethylene glycol 1			107	7-21-1 20/4		′ 40	52/104	No inf	formation available
Substar	Substance name: -								
EC No: -		_	CAS No: -						
DNEL	DNEL								
					Indu	strial			
Route of exposure:		Acute		Acute		Chronic			Chronic
		effect local		effect systemic		effect local			effect systemic
Oral	Oral -			-		-		-	
Inhalation -		-	-			35 mg/ kg (ethylene glycol)		-	
Dermal -			-		-		106 n	ng/kg (ethylene glycol)	
Critical physical parameters: solubility, flammability, corrosivity:									



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Trading name:					
Product code:	FGGBC-OT-X**	Date of compilation:	14 November 2022	Version:	2

	Consumer								
Route of		Acute	Acute		Chronic	Chronic			
exposure:		effect local	effect systemic		effect local	effect systemic			
Oral		-	-		-	-			
Inhalation		_			7 mg/kg				
milalation					(ethylene glycol)				
Dermal		-	-			53 mg/kg (ethylene glycol)			
PNEC									
Environmen	tal prot	ection target			PNEC				
Fresh water					10 mg/l (ethylene glycol)				
Freshwater s	sedimer	nts			37 mg/kg (ethylene glycol)				
Marine wate					1 mg/l (ethylene glycol)				
Marine sedi	ments				3.7 mg/kg (ethylene glycol)				
Food chain				1	no information available				
		sewage treatment			199.5 mg/l (ethylene glycol)				
Soil (agricult	tural)				1.53 mg/kg (ethylene glycol)				
Air				ı	no information available				
8.2	Evnosu	ura cantrals							
8.2.1.		re controls	controls						
0.2.1.	Appropriate engineering controls								
	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:				In accordance with Section 7.				
	Organisational measures to prevent exposure:				Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:				Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.				
8.2.2.	Personal protection equipment								
8.2.2.1.	Eye and	d face protection:	lev	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.					
8.2.2.2.	Skin pr	otection	-						
	Hand protection: Protect				tive nitrile gloves, >0.11 mm thick (EN 374).				



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	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 340) and shoes that cover the entire foot.
8.2.2.3.	Respiratory protection:	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

1	Information on basic physical and	chemical properties		
		Value	Method	
	Physical state:	liquid	Visual inspection	
	Colour:	orange brown	Visual inspection	
	Odour/odour threshold:	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	
	Lover and upper explosion limit:	No information available	No information available	
	Flash point:	No information available	No information available	
	Auto-ignition temperature:	No information available	No information available	
	Decomposition temperature:	No information available	No information available	
	pH:	No information available	No information available	
	Kinematic viscosity:	No information available	No information available	
	Solubility:	No information available	No information available	
	Partition coefficient noctanol/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	



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Trading name:		FAST GARNET GBC, SOLUTION					
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	Particle characteristics:	No information available	No information available
9.2	Other information		
	-		

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

11.1 Informatio	n on toxicolo	gical effects					
Acute toxic	city:	_					
Route of exposure:	Method	Species	Dos	e LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure t	ime	Results
Oral:	-	No information available		-	No information	on	-
Dermal:		No information available		-	- No information available		-
Inhalation:		No information available		-	No informatio	on	-
Oral:		pecific effects		Target No information		N	ote
: •	S	pecific effects		Target	organ	N	ote
Dermal:			No information available -			_	
Dermal: No information available Inhalation: No information available			No information available -				
minaration.			·				
:							
Aspiration	hazard:	N	lo inform	ation available.			
Aspiration	hazard: nd corrosion	N	lo inform	ation available.			
Aspiration	nd corrosion	osure time	lo inform		ion Method		Note



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Trading name:		FAST GARNET GBC,	SOLUTION	
Product code:	FGGBC-OT-X**	Date of compilation:	14 November 2022	Version: 2
Serious eye damage/irritation				

Sensitization	
Skin sensitization:	-
Respiratory sensitization:	-

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

Repeated dose toxicity (subacute, subchronic, chronic)

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



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Trading name:	FAST GARNET GBC, SOLUTION					
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Chronic inhalatio			No information available	No information available	No information available	No information available	on	-	
	Specific targ	get organ toxicit	y – repeated ex	posure (STOT	RE):				
			Specific effect	ts	Target o	rgan		Note	
Subacut	te oral	No informa	ntion available		No information	n available	-		
Subacut	te dermal	No informa	ntion available		No information	n available	-		
Subacut	te inhalation	No informa	ntion available		No information	n available	-		
Subchro	onic oral	No informa	ntion available		No information	n available	-		
Subchro	nic dermal	No informa	ition available		No information	n available	-		
Subchro	nic inhalatio	n No informa	ition available		No information	n available	-		
Chronic	oral	No informa	ntion available		No information	n available	-		
Chronic	dermal	No informa	ntion available		No information	n available	-		
Chronic	inhalation	No informa	ntion available		No information	n available	-		
	Carcinogen Mutagenicit Genotoxicit	ty in vitro:		carcinoge Current in	Current studies on test animals did not indicate carcinogenic effects. Current in vitro tests did not indicate mutagenic effects No information available.				
	Mutagenicit				Current in vivo tests did not indicate mutagenic effects.				
	.	utagenicity:			No information available.				
	Reproductiv			No toxicity	y on reproductive organs.	e organs was	s det	ermined in	
	Summary properties:	of evaluation	of the CM	No inform	ation available.				
11.2		on other hazard							
11.2.1.		lisrupting prope							
	No known endocrine disrupting properties that affect human health.								
	Other informations:								

SECTION 12. Ecological information



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Trading name:		FAST GARNET GBC, S	SOLUTION		
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Acute (short-te	rm)	Dose	Exposur	e Chasias	Method	Evalu	ıation	Note
toxicity		Dose	time	Species	Method	Evalu	lation	inote
Fish		LC ₅₀	96 hours	No information available	No information available	No inforr availa	nation ble	-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inforr availa	nation ble	-
Algae/aquatic μ	olants	IC ₅₀	8 days	No information available	No information available	No inforr availa	nation ble	-
Other organism	าร	-	72 hours	-	_	-		-
Chronic (long-t toxicity	erm)	Dose	Exposur time	e Species	Method	Evalu	ıation	Note
Fish		LC ₅₀	96 hours	No information available	No information available	No inforr availa	nation ble	-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inforr availa	nation ble	-
Algae/aquatic p	olants	IC ₅₀	72 hours	No information available	No information available	No inforr availa	nation ble	-
Other organism	าร	-	-	-	-	-		-
12.2 Persist	ence ar	nd degradab	oility					
Abioti	c degra	dation			:			
	De	gradation ha	alf-lives	Method	Evaluatio	n		Note
Marine water	larine water No information available		vailable	No information available	No informatio available	n	-	
Fresh water	No in	formation a	vailable	No information available	No information available			
Air	No in	formation a	vailable	No information available	No information available			
Soil	No in	oformation a	vailable	No information available	No informatio available	n	-	
-								
	gradatio							
% Degradation	on	Time (c	iays)	Method	Evaluatio	n		Note



Trading name:

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

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Product code: FGGBC-OT-X**		Date of compilation:		14 November 2022 Ver		Version:	2						
No info	ormation le	No av	o ir railable	nformation	No in	formatic ble		No ir	nformation able	1	-		
12.3	Bioaccur	nulative	e potentia	al									
			•	coefficient	log Kov	v)							
Valu	e C	oncent	ration	рН	°C	Мє	ethod		Evalua	ation		Note	
-		inform lable	ation	-	-	No info			No inform available	nation	-		
	D:		f /	'DCE\									
\ <u>\</u>	/alue	ntratio	n factor (Speci			Method	<u> </u>		Evaluation	on.		Note	
	rmation	No		formation		ormatio		No	information		No inf	ormation	
availabl			lable		availal				ilable		availak		
	Chronic	ecotoxi	city	_									
	Value		Dos	C	osure ime	Spe	ecies	M	1ethod	Eval	uation	Note	
Chronic	toxicity o	n fish	LC ₅₀	No infor avail	mation able	No inforr availa	nation Ible		ormation ilable	No inforn availa	nation ble	-	
	toxicity o ea (<i>Daphn</i>		EC ₅₀	No infor avail	mation able	No inforr availa	nation Ible		ormation ilable	No inforn availa	nation ble	-	
12.4	Mobility	in soil											
		·····•		ibution in	environr	mental c	ompart	tment	:s:				
			available										
	Surface t								.1 1	<u> </u>			
	Value		°C	C	oncentr	ation		Me	thod			Note	
	No informat available	ion i	No information available	∩n i	informa ailable	ation	No inf availal		tion	-			



Trading name:

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Product code: FGGBC-O		GBC-OT-X**	Date of	compilation:	14 November 2022 Version		
	Ads	orption / d	esorption				
Transpo		A/D c	coefficient s constant	log Kow	Evaporation rate	Method	Note
Soil-wa	ter	No available	information	No information available	No information available	No information available	-
Water-a	air	No available	information	No information available	No information available	No information available	-
Soil-air		No available	information	No information available	No information available	No information available	-
12.5.	Pos	ulte of DRT	and vPvB asses	comont			
12.3.		information		Sillelli			
	<u> </u>						
12.6.	End	ocrine disr	upting properti	ies			
	No	known end	ocrine disrupti	ng properties that	affect the environr	nent.	
10.7	0.1						
12.7.		er adverse informatior					
	INO	imormation	1 available				
SECTIO	N 13	. Disposal	consideration	S			
13.1	W	aste treatn	nent methods				
13.1.1.	Pr	oduct/Pacl	kaging disposa	l:			
		ubmit for d otection.	isposal to the l	egal person autho	rized by the Minist	ry of Environmental	and Nature
13.1.2.				tions according to	Law:		
	N	o intormati	on available				
13.1.3.	W	aste treatn	nent – relevant	information:			
13.1.3.	_		on available	om.duori.			
13.1.4.	Se	ewage disp	osal – relevant	information:			



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Trading name:		FAST GARNET GBC,	SOLUTION		
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	Waste must not be dispos	sed of into the sewage system.
13.1.5.	Other disposal recommer	ndations:
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community prov	visions:
	-	
SECTION	N 14 TRANSPORT INFORM	IATION
	Transporting/shipment by r	road (ADR)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpor	rt hazard class(es):	-
Packing	group:	-
Environn	nentally hazardous:	-
Special p	precautions for user:	-
	Transporting/shipment by r	rail (RID)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpor	rt hazard class(es):	-
Packing	group:	-
Environn	nentally hazardous:	-
Special p	precautions for user:	-
	Inland waterway transport ((ADN)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	_
Transpor	rt hazard class(es):	-
Packing	group:	-
Environn	nentally hazardous:	-
Special p	precautions for user:	-
	Transporting/shipment by s	sea (IMDG)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transport hazard class(es):		_



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Trading name:	FAST GARNET GBC, SOLUTION				
Product code:	FGGBC-OT-X**	Date of compilation:	14 November 2022	Version:	2

Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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 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);



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Trading name:		FAST GARNET GBC,	SOLUTION		
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	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessment	
	None	

SECTIO	CTION 16. Other information					
16.1	Ind	ication of changes:	-			
			PBT	Stable, bioaccumulative and toxic		
16.2	A.1		vPvB	Strongly stable and strongly bioaccumulative.		
16.2	Abi	breviations and acronyms:	LD ₅₀	Lethal dose, 50%		
			LC ₅₀	Lethal concentration, 50%		
			TCOJ	Specific target organ toxicity - single exposure		
16.3.		viliterature references and arce of data:				
16.4.		ssification and procedure (72/2008 (CLP)	used to derive th	ne classification for mixture according to Regulation (EC)		
Classification		Classification p	Classification procedure			
_	-		-			
16.5.	Rel	evant H statements (numb	er and full text)			
		302	Harmful if swallowed.			
	H:	317	May cause an allergic skin reaction.			
		350	May cause can	cer.		
16.6.	Training advice: -		-			
16.7. Further information: V		** "X" in the protect)	oduct code marks different volumes (different packagings of			
		ther information:		ponsible for consequences in case of failure to comply with use or improper use of the product described in this data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment
_



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Trading name:		NSE BUFF			
Product code:	NSEP-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

SECTI	ON 1. Identification of	the substa	nce/mixture	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	NSE BUI	FER		
	Chemical name:	-			
	Catalogue number:	NSEP-O	NSEP-OT-X**		
1.2.	Relevant identified us	es of the si	ubstance or mi	xture and uses advised against	
	Uses:		For use in cy	tochemical diagnostics.	
	Uses advised against:		Only the ide	ntified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.	BioGnost Ltd.	
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039		
	Telephone number:				
	Fax no.:				
	e-mail of competent p	person:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	Emergency telephone number			
	National Protection a	nd Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Medical Information:			1303 1 2340 342	

SECTIO	ECTION 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	Hazard class and category code: Hazard statements*:				
	Not identified as hazardous subst	ance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-sta	atements: see S	ection 16			
2.2.	Label elements					
	Product identification:	NSE BUFFER				
	Identification number:	-				
	Authorization no.:	-				
	Hazard pictograms:	-				



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Trading name:		NSE BUFF	NSE BUFFER		
Product code:	NSEP-OT-X**	Date of compilation:	21 Dec 2022	Version: 2	

	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Further information:	-		
2.3.	Other hazards			
	Endocrine Disrupting Properties:			
	No known endocrine disrupting properties Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not PBT or a vPvB.			

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

SECTI	SECTION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	-			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.			
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.			
	Self-protection of the first aider:	Treat symptomatically.			
4.2.	Most important symptoms and effects, both acute and delayed				
	FOILOWING INNAISTION.	cording to our findings, chemical, physical and toxicological properties of substance have not been entirely tested.			
	FUILDWING SKIN CONTACT.	cording to our findings, chemical, physical and toxicological properties of substance have not been entirely tested.			



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Trading name:	NSE BUFFER			
Product code:	NSEP-OT-X**	Date of compilation:	21 Dec 2022	Version: 2

	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
4.3.	Indication of any immediate	e medical attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water 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	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (s	ee Section 8).			
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



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Trading name:	NSE BUFFER			
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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

SECTIO	ON 7. Handling and 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: Other measures:	Prevent spilling into the sewage system and waterways.		
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.		
	Packaging materials:	Manufacturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).		
7.3.	Specific end use(s)			
	Recommendations:	-		
	Industrial sector specific solutions:	-		



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Trading name:	NSE BUFFER				
Product code:	NSEP-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

SECTION 8. Exposur		al protec	tion			
8.1. Control para	meters				T	
Substance	CAS			al exposure limit ort term values	Biological limit values	
			ppm	mg/m³		
-	_		-	-	No information available	
1						
Substance - name:						
EC No: -	CAS No:	_				
DNEL	<u>.</u>					
			Industrial			
Route of	Acute		Acute	Chronic	Chronic	
exposure:	effect local	effe	ect systemic	effect local	effect systemic	
Oral	-	-		-	-	
Inhalation	-	-		-	-	
Dermal	-	-		-	-	
Critical physical parar	neters: solubility, fl	ammabili	ty, corrosivity:	-		
			Consumer			
Route of	Acute		Acute	Chronic	Chronic	
exposure:	effect local	effe	ect systemic	effect local	effect systemic	
Oral	-	-		-	-	
Inhalation	-	-		-	-	
Dermal	-			-	-	
PNEC						
Environmental protec	tion target		PNEC			
Fresh water				rmation available		
Freshwater sediments				No information available		
Marine water				No information available		
Marine sediments				No information available		
Food chain				No information available		
Microorganisms in sewage treatment				No information available		
Soil (agricultural)				rmation available		
Air			No info	rmation available		



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Trading name:	NSE BUFFER				
Product code:	NSEP-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

8.2.	Exposure controls			
8.2.1.	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 pr exposure:	event	No information available	
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.	
8.2.2.	Personal protection equip	ment		
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.	
8.2.2.2.	Skin protection			
			ctive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min	
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).	
8.2.2.3.	Respiratory protection:	filter fo	ctive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No inf	ormation available	
8.2.3.	Environmental exposure of	controls		
	Substance/mixture related measures to prevent expo		See Section 6	
	Structural measures to pr exposure:	event	Use modern equipment.	
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.	
	Technical measures to pre exposure:	event	See Section 6	

SECTIO	SECTION 9. Physical and chemical properties				
9.1.	Information on basic physical and chemical properties				
		Value	Method		



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Trading name:	NSE BUFFER				
Product code:	NSEP-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	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
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
рН:	6.8 – 7.0	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
Other information		

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

SECTION 11. Toxicological information					
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008				
	Acute toxicity:				



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Trading name:	NSE BUFFER					
Product code:	NSEP-OT-X**	Date of compilation:	21 Dec 2022	Version:	2	

Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results	
Oral exposure:	No information available	_	LD ₅₀	_	-	
Dermal exposure:	No information available	-	LD ₅₀	-	-	
Inhalation exposure:	No information available	-	LC ₅₀	-	-	
Specific tar	get organ toxicity – s	ingle exposure	e (STOT SE):			
i i	Specific	effects	Target organ		Note	
Oral exposure:	No information		No information available	_		
Dermal exposure:	No information	available	No information available	-		
Inhalation exposure:	No information	available	No information available	-		
Irritation ar	nd corrosion					
	Exposure time	Species	Evaluation	Method	Note	
Skin irritation:	-	-	-	-	-	
Eye irritation:	-	-	-	-	-	
Sensitizatio	n					
Dermal exposure:	No information avai	ilable				
Bermar exposure.	lo information available					
Inhalation exposure:	No information avai	ilable				
Inhalation exposure:			d toxicological characterist	ics		
Inhalation exposure:		al, chemical an	d toxicological characterist	ics		
Inhalation exposure: Symptoms	related to the physic	al, chemical an vailable	d toxicological characterist	ics		
Inhalation exposure: Symptoms Oral exposure:	related to the physic No information a No information a	al, chemical an vailable vailable	d toxicological characterist	ics		

Repeated dose toxicity (subacute, subchronic, chronic)



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

Specific target organ toxicity – repeated exposure (STOT RE):						
	Specific effects	Target organ	Note			
Subacute oral	No information available	No information available	-			
Subacute dermal	No information available	No information available	-			
Subacute inhalation	No information available	No information available	-			
Subchronic oral	No information available	No information available	-			
Subchronic dermal	No information available	No information available	-			
Subchronic inhalation	No information available	No information available	-			
Chronic oral	No information available	No information available	-			
Chronic dermal	No information available	No information available	-			



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Chronic	inhalation	No informat	ion available	No information available	-
	CMR effects (carcinogenicity,	, mutagenicity, r	eproductive toxicity)	
	Carcinogenic	ity:	Based on av	ailable data, the classification criteri	a are not met.
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criteri	a are not met.
	Genotoxicity:		Based on av	ailable data, the classification criteri	a are not met.
	Mutagenicity	in-vivo:	Based on av	ailable data, the classification criteri	a are not met.
	Germ cell mu	tagenicity:	Based on av	ailable data, the classification criteri	a are not met.
	Reproductive	toxicity:	Based on av	ailable data, the classification criteri	a are not met.
	Summary of	evaluation of th	e CMR propertie	es: -	
				PS: -	
11.2	Information o	on other hazard	s:	es: -	
11.2	Information of Endocrine dis	on other hazard	s: ties:	es: -	
	Information of Endocrine dis The substate contain contain contain according to Commission 2017/2100 of Endocrine contain conta	on other hazard	s: does not sidered to properties le 57(f) or ulation (EU) Regulation	es: -	
	Information of Endocrine dis The substate contain contain contain contain contain according to Commission 2017/2100 of (EU) 2018/66	on other hazard crupting propert nce/mixture nponents cons ine disrupting o REACH Articl Delegated regular Commission 05 at levels of	s: does not sidered to properties le 57(f) or ulation (EU) Regulation	PS: -	

SECTION 12. Ecological information

Toxicity 12.1.

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	-	_	-	-



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

12.2. Persistence and degradability

Abiotic degradation

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

D: 1		
RION	aaraa	dation
DIOU	cyrac	aation

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

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water (log Kow):

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

Bioconcentration factor (BCF)



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	Value	e Species Method		Evaluation		Note				
No information No information available		on No information available		No information available	No information available		ailable			
	Chronic e	cotoxic	ity							
	Value		Dose	Exposure time	Spec	cies	Method	Evalua	tion	Note
Chroni	ic toxicity or	n fish	LC ₅₀	No information available	No informa availab		No information available	No inform available	nation	-
	ic toxicity or cea (<i>Daphni</i>		EC ₅₀	No information available	No informa availab		No information available	No inform available	nation	_
12.4.	Mobility i	in soil								
	1/									
		·····		on in environi	mental co	mpart	ments:			
	No inforn	nation a		on in environi	mental co	mpart	ments:			
	No inform	nation a	available	-		mpart				
	No inform	nation a	evailable °C	Concentr		ompart	ments: Method			Note
	No inform	nation a ension: N on in	evailable °C	-	ation			able	-	Note
	No inform Surface to Value No informati	nation a ension: N on in	°C o oformation	Concentr No inform	ation		Method	able	-	Note
	No inform Surface to Value No informati	mation a ension: N on in	°C o oformation vailable	Concentr No inform	ation		Method	able	-	Note
Transp	No inform Surface to Value No informati available Adsorption	ension: Non in average A/D coe	°C o oformation vailable	Concentr No inform	ation I	No inf	Method		thod	Note
Transp Soil-wa	No inform Surface to Value No informati available Adsorption	on / des	°C lo nformation vailable orption efficient	Concentr No inform available	ation ation	No inf	Method ormation avail		thod	
	No inform Surface to Value No informati available Adsorption out the state of the	on / des A/D coe Henry's o	°C o oformation vailable orption efficient constant	Concentr No inform available log Kow	ation ation I	No info	Method ormation avail	Met No inform	thod	Note



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		i						

12.5.	Results of PBT and vPvB assessment
	No information available
12.6.	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
	No information available
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
1212	
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
10.1.1	
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.
13.1.6.	Relevant Community provisions:
	-
SECTION	N 14. Transport information



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



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

SECTION 16. Other information	
16.1. Indication of changes:	



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

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Л	NI			x	
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Exposure scenario resulting to Chemical safety assessment

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SECTI	ON 1: Identification of t	the substance	e/mixture	and of the company/undertaking
1.1	Product identifier			
	Trading name:	NSE SUBST	RATE	
	Chemical name:	-		
	Catalogue number:	NAFA-OT-X	(**	
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against
	Uses:		For use	in cytochemical diagnostics.
	Uses advised against:		Only the	e identified uses are advised.
	Reason why uses advis	sed against:	medical	duct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes.
1.3	Details of the supplier	of the safety	data shee	t
	Supplier:		BioGnos	t Ltd.
	Address:		Medjugo	orska 59, Zagreb
	Telephone number:		+385 1 2	2409997
	Telefax.:		+385 1 2	2404039
	e-mail of competent p	erson:	msds@b	<u>piognost.hr</u>
	National contact:		-	
1.4	Emergency telephone	number		
	National Protection ar	nd Rescue Dire	ectorate:	112
	Medical information:			+385 1 2348 342
	Other information:			-

SECTIO	ON 2. Hazards identification	
2.1	Classification of the substance or mixture	
2.1.1	Classification according to Regulation (EC) No	o 1272/2008 (CLP)
	Hazard class and category code:	Hazard statements*:
	Flam. Liq. 2	H225
	Acute Tox. 4	H302
	Acute Tox. 4	H312
	Acute Tox. 4	H332
	STOT SE 1	H370
2.1.2.	Additional information	
	-	
*For fu	ıll text of Hazard- and EU Hazard-statements: se	e SECTION 16
2.2	Label elements	



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	Product identification:	NSE SUBSTRATE
	Identification number:	-
	Authorization number:	-
	Hazard pictograms:	GHS02 GHS07 GHS08
	Signal word:	Danger
	Hazard statements:	 H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H370 Causes damage to organs.
	Precautionary statements:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	No known endocrine disrupting Properties Results of PBT and vPvB asserted PBT or a vPvB.	

SECTION 3. Composition/information on ingredients



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CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
111-46-6/ 203-872-2/ 603-140-00-6	01-2119457857-21- XXXX	>50%	diethylene glycol	Acute Tox. 4; H302
67-56-1/ 200-659-6/ 603-001-00-X		>10% - <20%	methanol	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 STOT SE 1; H370

ral notes: ving inhalation: ving skin contact: ving eye contact:	If the suggested first aid measures do not prove sufficient, seek medical attention. 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. Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain. 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. Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large
ving skin contact: ving eye contact:	ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen. Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain. 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. Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a
ving eye contact:	water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain. 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. Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a
	least 20 minutes. If the symptoms remain, immediately call in ophthalmologist. Rinse the oral cavity, drink 1-2 glasses of water. Immediately consult a
ving ingestion:	, ,
	quantities, transport the afflicted person to the hospital.
rotection of the first aider:	-
important symptoms and eff	fects, both acute and delayed
ving inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
ving skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
ving eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
ving ingestion:	Danger of gastric perforation.
١	ving skin contact:



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SECTIO	SECTION 5. Firefighting measures						
5.1	Extinguishing media						
	Suitable extinguishing media:	water spray, dry powder, CO2 or alcohol resistant foam					
	Unsuitable extinguishing media:	No information available					
5.2	Special hazards arising from the su	ubstance or mixture					
	Hazardous combustion products:	No information available					
5.3	Advice for firefighters	Advice for firefighters					
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.						
5.4	Additional information						
	Remove sources of heat and ignition	on. Do not contaminate the environment with extinguishing media.					

SECTIO	ON 6. Accidental release measu	ires				
6.1	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	2. For emergency responders:					
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipmen (see Section 8).					
6.2	Environmental precautions:					
	Do not dispose of in sewage, or Protection and Rescue Directo	Irainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.				
6.3	Methods and material for cont	ainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.				
6.3.2.	Cleaning up:	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 involved materials with water.				
6.3.3.	Other information:	Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					



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See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTIO	ON 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat.		
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		-		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2	Conditions for safe storage, including any incon	any incompatibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers a temperatures ranging from +2 to +8 °C.			
	Packaging materials:	Manufactu containers	urer's original packaging. Avoid metal s.		
	Requirements for storage rooms and vessels:	Keep away tightly clo	y from food and drink. Keep the containers sed.		
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain tly leads into sewage system. Secure proper n.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).			
7.3	Specific end use(s)				
	Recommendations:	-			
	Industrial sector specific solutions:	-			

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



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Trading na	ıme:					ı	NSE S	UBSTR	ATE			
Product co	ode:	NAFA-OT-X** Date o		of co	ompila	ompilation: 21 Dec 2		ec 2022	Version:	2		
			1		ı		1					
-				-		-		-		No inf	ormation availab	ole
Substance r	name:	-						T				
EC No:		-	CAS No):	-							
DNEL												
					In	dust	trial					
Route of		Acι	ute	ļ A	Acute			Chro			Chronic	
exposure:		effect	local	effect	t systemi	С		effect l	ocal		effect systemic	
Oral		-		-			-			-		
Inhalation		-		-			-			-		
Dermal		-		-			-			-		
Critical phys	sical par	rameters: s	solubility,	flamma	bility, co	rrosi	vity:	-				
					Co	nsu	mer					
Route of		Acı	ute	A	Acute			Chro	nic		Chronic	
exposure:		effect	local	effec	t systemi	ic		effect l	ocal		effect systemic	
Oral		-		-			-			-		
Inhalation		-		-			-			-		
Dermal		-		-			-			-		
PNEC												
Environmen	ital prot	ection tar	get			PN	IEC					
Fresh water						no	inform	nation a	vailable			
Freshwater	sedime	nts				no information available						
Marine wate	er					no information available						
Marine sedi	ments					no information available						
Food chain						no information available						
Microorgan	isms in	sewage tr	eatment			no information available						
Soil (agricul	tural)					no information available						
Air			no information available									
8.2	Exposi	osure controls										
8.2.1.	Appro	priate eng	ineering	controls								
		nce/mixtu nt exposur				pro		e equipr			ooms. Use persor rink or smoke in	



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	Structural measures to prevent exposure:		In accordance with Section 7.			
			Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent ex	kposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.				
8.2.2.2.	Skin protection					
	Hand protection:	Protective nitrile gloves, >0.11 mm thick (EN 374).				
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 340) and shoes that cover the entire foot.				
8.2.2.3.	Respiratory protection:		quired under normal conditions of use. Use suitable tory protective device when high concentrations are t.			
8.2.2.4.	Thermal hazards:	No info	ormation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Se	ction 6			
	Structural measures to prevent exposure:	Use modern equipment.				
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.			
	Technical measures to prevent exposure:	See Se	ction 6			

SECTI	SECTION 9. Physical and chemical properties					
9.1	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	Visual inspection			
	Colour:	colourless	Visual inspection			
	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			



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	-		
9.2	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
	рН:	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:	No information available	No information available
	Lover and upper explosion limit:	No information available	No information available
	Flammability:	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 (room temperature).					
10.3 Possibility of hazardous reactions:		No dangerous reactions known.					
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. To	xicological info	rmation						
11.1 Informa	I.1 Information on toxicological effects							
Acute toxicity:								
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	EVNOSIITA TIMA				
Oral:	-	No information available	-	No information available	-			
Dermal:	-	No information available	-	No information available	-			
Inhalation:	-	No information available	-	No information available	-			



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			ate or compile			
Specific	target organ toxicit	v – single evno	osura (STOT SE	١٠		
Specific		ific effects	DSUITE (STOT SE	Target orgar	,	Note
Oral:	No information		No inf	formation availa		
Dermal:	No information					
Inhalation:	No information	avaliable	INO INT	ormation availa	able -	
Aspiration	on hazard:	N	lo information	available.		
Irritation	n and corrosion					
	Exposur	e time	Species	Evaluation	Method	Note
Skin corrosion/irritation	on:	_		_	-	-
Serious eye damage/irritation	- 1	-		_	_	-
Sensitiza	ation					
Skin sensitization	n: -					
Respiratory sensi	tization: -					
÷						
Sympto	ms related to the ph	nysical, chemic	al and toxicolo	gical characteri	stics	
Oral exposure:	No informati	on available.				
Dermal exposure	: No informati	on available.				
Inhalation expos	ure: No informati	on available.				
Eye exposure:	No informati	on available.				
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluatio	on Note
Subacute oral	No information available	No information available	No information available	No information available	No informat available	
Subacute dermal	No information available	No information available	No information available	No information available	No informat available	
Subacute inhalation	No information available	No information available	No information available	No information available	No informat available	



Mutagenicity in vitro:

Mutagenicity in vivo:

Germ cell mutagenicity:

Genotoxicity:

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Toduct cod	in.	AFA-OT-X	Da	ite oi compilai	LIOH.	ZIDec	. 2022	ve	ision.	
ubchronic o	oral No avail	information able	No information available	No information available	No inforr availa	mation Ible	No informatic available	'n	-	
ubchronic ermal	No avail	information able	No information available	No information available	No inforr availa	nation Ible	No informatic available	'n	-	
ubchronic nhalation	No avail	information able	No information available	No information available	No inforr availa	nation Ible	No informatic available	'n	-	
Chronic oral No i		information able	No information available	No information available	formation information in		No informatic available	n	-	
hronic derm	nal No avail	information able	No information available	No information available	No inforr availa	nation Ible	No informatic available	'n	-	
hronic halation	No avail	information able	No information available	No information available	No inforr availa	nation Ible	No informatic available	'n	-	
Spec	cific target	organ toxicit	y – repeated e	xposure (STOT	RE):					
			Specific effec	cts		Target o	rgan		Note	
ubacute ora	al	No informa	ation available		No inf	ormation	available -			
ubacute der	rmal	No informa	ation available		No inf	No information available -				
ubacute inh	alation	No informa	ation available		No inf	No information available -				
ubchronic o	oral	No informa	ation available		No inf	ormation	available	-		
Subchronic dermal No informa		ation available		No information available		-				
ubchronic ir	nhalation	No informa	ation available		No information available		-			
Chronic oral No informa		No informa	ation available		No inf	ormation	available	-		
Chronic dermal No informa		ation available		No inf	ormation	available	-			
hronic inhal	lation	No informa	ation available		No inf	ormation	available	-		
CMF	R effects (c	arcinogenicit	v: mutagenicity	v: reproductive	toxicity)					
	MR effects (carcinogenicity; mutagenicity; arcinogenicity:			Current stu	ıdies on		nals did not	indic	cate	
			y; mutagenicity	•	ıdies on		nals did not	in	dio	dicate

Current in vitro tests did not indicate mutagenic effects.

Current in vivo tests did not indicate mutagenic effects.

No information available.

No information available.



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	Reproductive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.				
	Summary of evaluation of the CMR properties:	No information available.				
11.2.	Information on other hazards:					
11.2.1.	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.					
11.2.2.	Other informations:					
	-					

SECTION 12. Ecological information						
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	No information available	-
Other organisms	-	72 hours	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-



Trading name:

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Product cod	ie: ſ	NAFA-OT-X*	•	Da	ate of compila	tion:	21 De	c 2022	V	/ersion:
Algae/aquatio	c plants	IC ₅₀	72 hours		lo information vailable	_	rmation lable	No informa available		-
Other organi	sms	-	-	_		-		-		-
		and degrada	bility							
Abic	tic degr		16.11							
	De	egradation h	nalt-lives		Method		Evaluation			Note
Marine water	No i	nformation	available	avai	nformation lable	avail	nformation lable	-	-	
Fresh water	No i	nformation	available		nformation lable		nformation lable	າ -	-	
Air	No i	nformation	available		nformation lable		nformatioi lable	າ -	-	
Soil	No i	nformation	available		nformation lable		nformation lable	n -	-	
1										
	egradat									
% Degrada		Time (Method		Evaluation			Note
No information available	on	No information available		No information available		No information available		-		
12.2 8:										
		tive potenti er partition		log Kr	ow)					
Value		entration	pH	°C	Method		Evalu	ation		Note
-		rmation		-	No information	on	No inform	nation	-	
	avanabi				dvanabie		avanable			
	oncentra	ation factor						1		
Value		Spec			Method		Evaluati			Note
No information available		lo ir vailable	formation	No i avail	nformation able		information	on	No in	formation ble



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	Chr	onic ecoto	xicity									
	Va	lue	Dose	Exposure time	Sp	ecies	Meth	nod	Eva	luation	Note	
Chronic	toxic	city on fish	LC ₅₀	No information available	No infor avail	mation able	No informa availab		No infor avail	mation able	-	
Chronic crustac		city on aphnia)	EC ₅₀	No information available	No infor avail	mation able	No informa availab		No infor avail	mation able	-	
12.4.	Mol	oility in soi	l									
	:		dicted distributi	on in environn	nental	compart	ments:					
	No	informatio	n available									
	Surf	ace tensio	n:									
	,	Value	°C	Concentra	ation		Metho	od			Note	
	information		No information available	No information available		No information available			-			
	A -1-											
Transpo		•	coefficient 's constant	log Kow	E	vaporati	on rate		Metho	d	Note	
Soil-wa	ter	No available	information	No information available		n No information available		No information available		ition	-	
Water-	Vater-air No information available		No informati available		lo inform vailable	nation	No information available			-		
Soil-air No information available		No information available		No information available		No information available		ition	-			
12.5.	Resi	ults of PBT	and vPvB asses	ssment								
	No	informatio	n available									
	1											



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	according to REACH Article	es not contain components considered to have endocrine disrupting properties e 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission at levels of 0.1% or higher.
12.7.	Other adverse effects	
	No information available	
SECTIO	N 13. Disposal considerati	ions
13.1	Waste treatment method	ds
13.1.1.	Product/Packaging dispo	osal:
	Submit for disposal to the Protection.	ne legal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste design	gnations according to Law:
	No information available	
13.1.3.	Waste treatment – releva	ant information:
	No information available	
13.1.4.	Sewage disposal – releva	ant information:
	Waste must not be dispo	osed of into the sewage system.
13.1.5.	Other disposal recomme	endations:
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community pro	ovisions:
	-	
SECTIO	N 14. Transport informati	on
	Transporting/shipment by	road (ADR)
UN nun	nber:	1992
UN pro	oer shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transpo	ort hazard class(es):	3 (6.1)
Packing	group:	III



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Environmentally hazardous: Special precautions for user:	_
Transporting/shipment by rail (R	
UN number:	
	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transport hazard class(es):	3 (6.1)
Packing group:	
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transport hazard class(es):	3 (6.1)
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transport hazard class(es):	3 (6.1)
Packing group:	III
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:	1992
UN proper shipping name:	Flammable liquid, toxic, n.o.s. (methanol solution)
Transport hazard class(es):	3 (6.1)
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-



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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 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);					
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)						
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act					
15.2	Chemical safety assessme	ent					
	None						

SECTION 16. Other information				
16.1 Indication of changes:	-			



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			·	<u> </u>	
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			ADD A LLCC			
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.		literature references and rce of data:	-			
16.4.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classific	Classification		Classification procedure			
_			-			
16.5.	Relevant H statements (numb		per and full text)			
	225		Highly flammable liquid and vapour.			
		301	Toxic if swallowed.			
		302	Harmful if swallowed.			
		311	Toxic in contact with skin.			
	H:	312	Harmful in contact with skin.			
		331	Toxic if inhaled.			
		332	Harmful if inhaled.			
		370	Causes damage to organs.			
16.6.	Training advice:		-			
	7. Further information:		** "X" in the product code marks different volumes (different packagings 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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		the substa	ance/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	NSE INF	NSE INHIBITOR		
	Chemical name:	-	-		
	Catalogue number:	NAFO-C	NAFO-OT-X**		
1.2.	Relevant identified us	es of the s	ubstance or mi	xture and uses advised against	
	Uses:		For use in cy	tochemical diagnostics.	
	Uses advised against:	Uses advised against:		ntified 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	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Address:	Address:		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:	National contact:		-	
1.4.	Emergency telephone number				
	National Protection ar	nd Rescue	Directorate:	112	
	Medical information:				
	Medical information:			+385 1 2348 342	

SECTIO	SECTION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regula	ation (EC) No 12	72/2008 (CLP)				
	Hazard class and category	v code:	Hazard statements*:				
	Not identified as hazardous subst	ance.	-				
2.1.2.	Additional information						
	-						
*For fu	ll text of Hazard- and EU Hazard-sta	atements: see Se	ction 16				
2.2.	Label elements						
	Product identification:	NSE INHIBITO	R				
	Identification number: -						
	Authorization no.: -						
	Hazard pictograms:	-					



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	Signal word:	-				
	Hazard statements:	-				
	Precautionary statements:	-				
	Further information:	-				
2.3.	Other hazards					
	Endocrine Disrupting Properties:					
	No known endocrine disrupting properties					
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.					

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)		
7681-49-4/ 231-667-8/ 009-004-00-7	-	<3 %	sodium fluoride	Acute Tox. 3; H301 Eye Irr. 2; H319 Skin Irr. 2; H315 EUH032		

SECTIO	ECTION 4. First aid measures					
4.1.	Description of first aid measures					
	General notes:	-				
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.				
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.				
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.				
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.				
	Self-protection of the first aide	er: Treat symptomatically.				
4.2.	Most important symptoms and effects, both acute and delayed					
	FOILOWING INNAISTION.	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				



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	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.		
	Following ingestion: According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
4.3.	Indication of any immediate medical attention and special treatment needed			
	-			

SECTIO	TION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous 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 igniti	on.			
	Do not contaminate the environm	ent with extinguishing media.			

SECTIO	CTION 6. Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods: Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.					
	Emergency procedures: Mark the area using proper signs.					
6.1.2.	For emergency responders:					
	Wear protective equipment (see Section 8).					
6.2.	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3.	Methods and material for containment	nt and cleaning up				



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6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

SECTIO	ON 7. Handling and 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: Other measures:	Prevent spilling into the sewage system and waterways.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. T	horoughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).			
7.3.	Specific end use(s)				



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		TOR	NSE INHIBI		Trading name:
Product code: NAFO-OT-X** Date of compilation: 21 Dec 2022 Version: 2	Version: 2	21 Dec 2022	Date of compilation:	NAFO-OT-X**	Product code:

Recommendations:	-
Industrial sector specific solutions:	-

8.1. Cont	rol para	meters						
Substance					al exposure limit ort term values	Biological limit values		
					ppm	mg/m³		
-			-		-	-	No information available	
Substance name:	-							
EC No:	_		CAS No:	-				
DNEL								
					Industrial			
Route of Acute Acu			cute	Chronic	Chronic			
exposure: eff		ect local	effect systemic		effect local	effect systemic		
Oral			-	-				
Inhalation			-	-				
Dermal			-	-				
Critical physic	al parar	meters: s	solubility, fla	ımmability,	corrosivity:	-		
		1			Consumer			
Route of			Acute		cute	Chronic	Chronic	
exposure:		effe	ect local	effect	systemic	effect local	effect systemic	
Oral		-		-		-	-	
Inhalation		-		-		-	-	
Dermal		-		-		-	-	
PNEC								
Environmenta	l proted	ction tar	get			PNEC		
Fresh water						No information available		
Freshwater se	diment	S				No information available		
Marine water						rmation available		
Marine sedim	ents					rmation available		
Food chain					No info	No information available		
Microorganisr	ns in se	wage tr	eatment		No info	No information available		
Soil (agricultu	ral)				No info	No information available		



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Trading name:	NSE INHIBITOR					
Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version:	2	

Air			No information available		
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	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 preserve:	revent	No information available		
	Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equi	pment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection				
	standa		ctive gloves must be according to the EU Directive 2016/425/EEC and lard EN 374.		
	Hand protection:		Glove material: nitrile rubber Glove thickness: ≥0.50 mm		
			Break through time: >480 min		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long es (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	ctive 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			
	Substance/mixture relate measures to prevent exp		See Section 6		
	Structural measures to preserve:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to prexposure:	event	See Section 6		

SECTION 9. Physical and chemical properties



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Trading name:	NSE INHIBITOR					
Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version:	2	

	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	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
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
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
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			

SECTIO	ON 11. Toxicological information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008



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Trading name:	NSE INHIBITOR					
Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version:	2	

Acute toxic	city:				
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	_	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	_	-
Specific tar	rget organ toxicity – si	inale exposure	(STOT SE):		
- I - I	Specific		Target organ		Note
Oral exposure:	No information		No information available	_	
Dermal exposure:	No information	available	No information available	-	
Inhalation exposure	: No information	available	No information available	-	
			araas.c		
Respiratory	y irritation:	No inf	ormation available		
Respiratory	y irritation:	No inf	1		
	y irritation: nd corrosion	No inf	1		
		No inf	1	Method	Note
	nd corrosion		ormation available	Method -	Note -
Irritation a	nd corrosion	Species	ormation available	Method -	
Irritation and Skin irritation:	nd corrosion Exposure time	Species	ormation available Evaluation	-	-
Irritation and Skin irritation:	nd corrosion Exposure time	Species	ormation available Evaluation	-	-
Irritation and Skin irritation: Eye irritation:	nd corrosion Exposure time	Species - -	ormation available Evaluation	-	-
Irritation and Skin irritation: Eye irritation: Sensitization	nd corrosion Exposure time	Species - -	ormation available Evaluation	-	-
Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure:	nd corrosion Exposure time No information avail	Species lable	ormation available Evaluation	-	-
Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure: Symptoms	nd corrosion Exposure time No information avail	Species lable lable	Evaluation	-	-
Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure:	nd corrosion Exposure time No information avail	Species lable lable al, chemical an	Evaluation	-	-
Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure: Symptoms Oral exposure:	nd corrosion Exposure time No information avail No information avail related to the physica No information avail No information avail	Species lable lable al, chemical an vailable vailable	Evaluation	-	-



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Trading name:	NSE INHIBITOR					
Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version: 2		

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



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Trading name:		NSE INHIBI	TOR	
Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version: 2

	c inhalation	No informat	tion available	No information available	-	
	CMR effects (carcinogenicity	, mutagenicity, r	eproductive toxicity)		
	Carcinogenici	ity:	Based on av	Based on available data, the classification criteria are not met.		
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criteria	a are not met.	
	Genotoxicity:		Based on av	ailable data, the classification criteria	a are not met.	
	Mutagenicity	in-vivo:	Based on av	ailable data, the classification criteria	a are not met.	
	Germ cell mu	tagenicity:	Based on av	ailable data, the classification criteria	a are not met.	
	Reproductive	toxicity:	Based on av	ailable data, the classification criteria	a are not met.	
	Summary or C	evaluation of th	e CMR propertie	PS: -		
110				PS: -		
11.2 11.2.1.	Information c	on other hazard	ls:	·S: -		
•	Information of Endocrine dis The substate contain compave endocring to Commission 2017/2100 of (EU) 2018/60	on other hazard	does not sidered to properties le 57(f) or ulation (EU) Regulation	·S: -		
	Information of Endocrine dis The substa contain comhave endocraccording to Commission 2017/2100 o	on other hazard crupting proper nce/mixture nponents con ine disrupting o REACH Artic Delegated region of Commission of at levels of	does not sidered to properties le 57(f) or ulation (EU) Regulation	······································		

SECTION 12. Ecological information

Toxicity 12.1.

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	-	_	-	-



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Trading name:	NSE INHIBITOR					
Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version:	2	

Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	_
Other organisms	-	-	-	-	-	-

12.2. Persistence and degradability

Abiotic degradation

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	1
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	-

ъ.		1
RIOC	laara <i>t</i>	1ation
DIOU	i c qi at	dation

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

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water (log Kow):

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

Bioconcentration factor (BCF)



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Trading name:	NSE INHIBITOR				
Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

	Value		Species	Me	ethod	Evaluation	Note		
No information No available availa		informati lable	on No inform available	ation	No information available	No information available		ilable	
	Chronic	ecotoxi	city						
	Value		Dose	Exposure time	Species	Method	Evaluati	ion	Note
Chroni	ic toxicity (on fish	LC ₅₀	No information available	No information available	No information available	No informa	ation	-
	ic toxicity o		EC ₅₀	No information available	No information available	No information available	No informa available	ation	-
12.4	N.A I- 1114	,							
12.4.		y in soil or predi	cted distributi	on in environm	ental compart	tments:			
12.4.	Known	or predi		on in environm	ental compart	tments:			
12.4.	Known o	or predi rmation	available	on in environm	ental compart	tments:			
12.4.	Known on the No info	or predi rmation tension	available						Note
12.4.	Known o	or predi rmation tension ie	available :	Concentrat No informat available	ion	Method formation avail	able		Note
Transp	No info Surface Valu No informa available	or predi rmation tension ie e tion / de	available :	Concentrat	ion No inf	Method formation avail	able	-	Note
	No informa available Adsorpt	or predi rmation tension ie ition i e i	available :	Concentrat No informat available	ion No inf	Method formation avail ration rate		- nod	
Transp	No informal available Adsorpt ater Adsorpt No	or predi rmation tension ie ition / de A/D co Henry's	available C No information available esorption pefficient s constant	Concentrate No informate available log Kow	ion No inf Evapo No inform available	Method formation avail ration rate	Meth No informa	- nod ation	Note



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Trading name:	NSE INHIBITOR					
Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version: 2		
		·				

12 5	Describe of DDT and a D-D accessment
12.5.	Results of PBT and vPvB assessment
1	No information available
40.6	
12.6.	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
12.7.	
	No information available
SECTION	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
13.1.4.	Waste must not be disposed of into the sewage system.
	The second of th
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	N 14. Transport information
	Transporting/shipment by road (ADR)



SAFETY DATA SHEET

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

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Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version: 2	

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 (R	ID)
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 (IN	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-



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Trading name:	NSE INHIBITOR				
Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version: 2	

Further information:	-

15.1.	Safety, health and environ	nmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or rest	rictions of use					
	Authorizations:	-					
	Restrictions:	-					
	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 19 guideline)	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)					
	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act						
15.2.	Chemical safety assessme	ent					
	None						

SECTION 16. Other information	
16.1. Indication of changes:	



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Trading name:	NSE INHIBITOR				
Product code:	NAFO-OT-X**	Date of compilation:	21 Dec 2022	Version:	2

16.2.	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.		terature references and e of data:	-		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (1272/2008 (CLP)				
Classifi	ication		Classification procedure		
_			-		
16.5.	Relev	ant H statements (numb	per and full text)		
	:	301	Toxic if swallowed.		
	H: 3	315	Causes skin irritation.		
		319	Causes serious eye irritation.		
16.6.	Traini	ing advice:	-		
			** "X" in the product code marks different volumes (different packagings of the product)		
ir		er 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.		

Λ	N	N		X:
~	14	14	ᆫ	Л.

Exposure scenario resulting to Chemical safety assessment

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Trading name:	METHYL GREEN, SOLUTION					
Product code:	MGR-OT-X**	Date of compilation:	21 Dec 2022	Version: 2		

SECTION	ON 1. Identification of	the substa	nce/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	METHYL	. GREEN, SOLU	TION	
	Chemical name:	-			
	Catalogue number:	MGR-O	Г-Х**		
1.2.	Relevant identified us	es of the si	ubstance or mi	xture and uses advised against	
	Uses:		For microsco	ру.	
	Uses advised against:		Only the ide	ntified uses are advised.	
	Reason why uses advi	sed	device, regis	is intended for use only as an <i>in vitro</i> diagnostic medical tered at the Agency for Medicinal Products and Medical there is no reason to use it for other purposes	
1.3.	Details of the supplier	of the safe	ety data sheet		
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039		
	Telephone number:				
	Fax no.:				
	e-mail of competent p	person:	msds@biogn	<u>ost.hr</u>	
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection a	nd Rescue	Directorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to 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 fu	ll text of Hazard- and EU Hazard-sta	atements: see S	Section 16				
2.2.	Label elements						
	Product identification:	METHYL GRE	EN, SOLUTION				
	Identification number: -						
	Authorization no.:	Authorization no.:					
	Hazard pictograms:	-					



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Trading name:	METHYL GREEN, SOLUTION				
Product code:	MGR-OT-X**	Date of compilation:	21 Dec 2022	Version: 2	

	Signal word:	-			
	Hazard statements:	-			
	Precautionary statements:	-			
	Further information:	-			
2.3.	Other hazards				
	Endocrine Disrupting Propertie	s:			
	No known endocrine disrupting properties				
	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is no				
	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)				
7114-03-6/ 230-415-4/ -	-	3 – 6 %	4-[[4- (dimethylamino)phenyl][4- (dimethyliminio)cyclohexa- 2,5-dien-1-ylidene]methyl]- N-ethyl-N,N- dimethylanilinium bromide chloride, compound with zinc chloride	Skin Irr. 2; H315 Eye Irr. 2; H319 STOT SE 3; H335				

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:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.
	Self-protection of the first aider:	Treat symptomatically.



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Trading name:	METHYL GREEN, SOLUTION						
Product code:	MGR-OT-X**	Date of compilation:	21 Dec 2022	Version: 2			

4.2.	Most important symptoms and effects, both acute and delayed				
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
4.3.	Indication of any immedia	te medical attention and special treatment needed			
	-				

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

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective ed	quipment 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 the members without protective equipment. Remove all sources sparks and ignition. Do not smoke.					
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
•	Wear protective equipment (see Section 8).					
6.2.	Environmental precautions:					



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	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.						
6.3.	Methods and material for cor	ntainment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay harriore					
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.					
6.3.3.	Other information:	-					
6.4.	Reference to other sections						
	-						

SECTIO	ON 7. Handling and 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 ir	ncompatibilities			
1.2.	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).			



Environmental protection target

Microorganisms in sewage treatment

Fresh water

Marine water

Marine sediments

Food chain

Freshwater sediments

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7.3. Specif	ic end ι	use(s)						
Recon	nmenda	ations:			-			
Indust	Industrial sector specific solutions: -							
SECTION 8. Ex	posure	contro	ols/persona	l protec	tion			
8.1. Contro	ol parar	meters						
						l exposure limit		
Substa	ance		CAS N	10	values/sho	rt term values	Biolo	ogical limit values
					ppm	mg/m³		
-					-	-	No inforn	nation available
Substance name:	-							
EC No:	-		CAS No:	-				
DNEL								
					Industrial			
Route of		Δ	cute		Acute	Chronic		Chronic
exposure:		effe	ct local	effe	ect systemic	effect local	е	ffect systemic
Oral		-		-		-	-	
Inhalation		-		-		-	-	
Dermal		-		-		-	-	
Critical physica	l param	neters: s	olubility, fla	mmabili	ty, corrosivity:	-		
					Consumer			
Route of		Δ	cute		Acute	Chronic		Chronic
exposure:		effe	ct local	effe	ect systemic	effect local	е	ffect systemic
Oral		-		-		-	-	
Inhalation		-		-		-	-	
Dermal		-		-		-	1	
PNEC								

PNEC

No information available



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Soil (agric	cultural)			No information available		
Air				No information available		
8.2.	Exposure controls					
8.2.1.	Engineering measures		***			
	Substance/mixture related measures to prevent expoduring identified uses:			product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.		
	Structural measures to preexposure:	event	No info	rmation available		
	Organisational measures prevent exposure:	to		ation of work in order to reduce other worker's influence work process.		
	Technical measures to pre exposure:	event		proper workspace ventilation in order to keep ration levels in air below permitted levels.		
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection: Safe visc			lasses that stick to face (preventing splashing) (EN 166) or		
8.2.2.2.	Skin protection					
	standa		ective gloves must be according to the EU Directive 2016/425/EEC and dard EN 374. Glove material: nitrile rubber			
	Hand protection:		Glove thickness: ≥0.50 mm			
			Break through time: >480 min			
	Uther skin protection:			clothing made of natural fibers (such as cotton) with long 34), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	or organio	ace mask (EN 136) or half mask (EN 140) equipped with a c vapors, type "A" (boiling point >65°C) acording to EN en concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation	available		
8.2.3.	Environmental exposure of	controls				
	Substance/mixture related measures to prevent expo		See Sec	tion 6		
	Structural measures to prexposure:	event	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pre exposure:	event	See Section 6			



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.1.	Information on basic physical and che	mical properties		
		Value	Method	
	Physical state:	liquid	No information available	
	Colour:	bluish green	No information available	
	Odour/odour threshold:	no odor/no information available	No information available	
	Melting point / freezing point:	No information available	No information available	
	Boiling point or initial boiling point and boiling range:	No information available	No information available	
	Flammability:	No information available	No information available	
	Lover and upper explosion limit:	No information available	No information available	
	Flash point:	No information available	No information available	
	Auto-ignition temperature:	No information available	No information available	
	Decomposition temperature:	No information available	No information available	
	рН:	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	
	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			



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11.1.	Informatio	n on hazard classes a	s defined in	Regulation (EC) No 1272/20	08	
,	Acute toxic	city:				
Route of exposure		Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:		No information available	-	LD ₅₀	-	-
Dermal exposure:		No information available	-	LD ₅₀	-	-
Inhalatior exposure		No information available	-	LC ₅₀	_	-
,	Specific ta	get organ toxicity – s	ingle exposu	ure (STOT SE):		
		Specific e	ffects	Target organ		Note
Oral expo	osure:	No information	available	No information available	-	
Dermal e	exposure:	No information	available	No information available	-	
Inhalation	n exposure	: No information	available	No information available	_	
	Respirator	y irritation:	No	information available		
		nd corrosion		information available		
1	Irritation a		Species	information available Evaluation	Method	Note
Skin irrita	Irritation a	nd corrosion		information available	Method	Note
	Irritation a	nd corrosion Exposure time	Species	information available Evaluation		Note
Skin irrita Eye irritat	Irritation a	nd corrosion Exposure time -	Species	information available Evaluation		Note
Skin irrita Eye irritat	Irritation a ation: tion:	nd corrosion Exposure time -	Species - -	information available Evaluation		Note
Skin irrita Eye irritat	Irritation a ation: tion: Sensitization exposure:	nd corrosion Exposure time - -	Species lable	information available Evaluation		Note
Skin irritat Eye irritat Dermal e	Irritation a ation: tion: Sensitization exposure: n	nd corrosion Exposure time No information avai	Species lable	information available Evaluation		Note
Skin irritat Eye irritat Substitute	Irritation a ation: tion: Sensitizatio exposure: n e: Symptoms	nd corrosion Exposure time No information avai	Species lable lable	Evaluation		Note
Skin irritat Eye irritat Dermal e	Irritation a ation: tion: Sensitization exposure: n e: Symptoms osure:	Exposure time No information avai	Species lable lable al, chemical vailable	Evaluation		Note
Skin irritat Eye irritat Dermal es Inhalation exposure Oral expo	Irritation a ation: tion: Sensitization exposure: n e: Symptoms osure:	nd corrosion Exposure time No information avaitable related to the physical No information at No information and No infor	Species lable lable al, chemical vailable vailable	Evaluation		Note



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

Specific target organ toxicity – repeated exposure (STOT RE):						
	Specific effects	Target organ	Note			
Subacute oral	No information available	No information available	-			
Subacute dermal	No information available	No information available	-			
Subacute inhalation	No information available	No information available	-			
Subchronic oral	No information available	No information available	-			
Subchronic dermal	No information available	No information available	-			
Subchronic inhalation	No information available	No information available	-			
Chronic oral	No information available	No information available	-			
Chronic dermal	No information available	No information available	-			



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Chronic	inhalation	No informat	ion available	No information available	-		
	CMR effects (carcinogenicity	, mutagenicity,	reproductive toxicity)			
	Carcinogenici	ity:	Based on a	available data, the classification criter	ia are not met.		
	Mutagenicity	in-vitro:	Based on a	available data, the classification criter	ia are not met.		
	Genotoxicity:		Based on a	available data, the classification criter	ia are not met.		
	Mutagenicity	in-vivo:	Based on a	available data, the classification criter	ia are not met.		
	Germ cell mu	tagenicity:	Based on a	available data, the classification criter	ia are not met.		
	Reproductive	toxicity:	Based on a	Based on available data, the classification criteria are not met.			
	Summary of e	evaluation of th	e CMR propert	ies: -			
				ies: -			
11.2	Information o	on other hazard	s:	ies: -			
	Information of Endocrine dis The substate contain compared according to Commission 2017/2100 of (EU) 2018/60	on other hazard	s: does not sidered to properties le 57(f) or ulation (EU) Regulation	ies: -			
	Information of Endocrine dis The substate contain compared have endocring to Commission 2017/2100 o	on other hazard crupting propert nce/mixture nponents cons ine disrupting REACH Articl Delegated regular Commission 05 at levels of	s: does not sidered to properties le 57(f) or ulation (EU) Regulation	ies: -			

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	-	-	-	-



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

12.2. Persistence and degradability

Abiotic degradation

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

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RIOC	laara <i>t</i>	1ation
DIOU	i c qi at	dation

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

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water (log Kow):

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

Bioconcentration factor (BCF)



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Produc	t code:	: M	GR-OT-X**	Date	e of con	npilati	on: 21 Dec	2022 Version	on: 2
V	alue		Species	M	ethod		Evaluation	Note	
No information No available avail		o informati ailable	No information available			No information available	No information a	vailable	
	Chron	ic ecoto	xicity						
	Value	е	Dose	Exposure time	Spec	cies	Method	Evaluation	Note
Chronic	toxicity	/ on fish	LC ₅₀	No information available	No inform availab		No information available	No information available	-
Chronic crustace	-		EC ₅₀	No information available	No inform availab		No information available	No information available	-
	No inf		dicted distributi n available n:	on in environm	nental co	ompart	ments.		
		lue	°C	Concentra	ation		Method	Note	2
	No	No no information No information available available		ormation	-				
	Adsorp		desorption						
Transport A/D coefficient Henry's constant		log Kow	E,	vapora	tion rate	Method	Note		
Soil-wa	tor :	lo vailable	information	No information available	No inf	ormati	on available	No information available	-
Water-a	air	lo vailable	information	No information available	No inf	ormati	on available	No information available	-



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Soil-air	No avail	information able	No information available	No information a	vailable	No infor available		-
12.5.	Results of	f PBT and vPvB asse	ssment					
	according	ance/mixture does to REACH Article 5 n (EU) 2018/605 at	7(f) or Commis	sion Delegated reg				
12.6.	Endocrine	e disrupting propert	ies					
	according	ance/mixture does g to REACH Article 5 n (EU) 2018/605 at	7(f) or Commis	sion Delegated reg				•
12.7.	Other adv	verse effects						
	No inform	nation available						
SECTIO	N 13. Disp	osal consideration	ns					
13.1.	Waste t	reatment methods						
13.1.1.	Product	:/Packaging disposa	l:					
	Submit Protecti	for disposal to the l	egal person au	thorized by the Min	istry of Er	nvironmen	tal and Natur	·e
13.1.2.	Waste c	codes/waste designa	ations accordin	g to Law:				
	No info	rmation available		9				
13.1.3.	Waste t	reatment – relevant	information:					
	No info	rmation available						
1214	Cowosa	disposal relevant	information					
13.1.4.		disposal – relevant						
	vvaste n	nust not be dispose	ed of into the se	ewage system.				
13.1.5.	Other d	isposal recommend	lations:					
		dispose of the prod	in charge. Do n	ot dispose of the pa	ackaging i	nto the se	wage system	. Submit



UN proper shipping name:

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13.1.6. Relevant Community pro	ovisions:
13.1.6. Relevant Community pro	OVISIONS.
-	
SECTION 14. Transport informati	on
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:	-
Special precautions for user:	-
Transporting/shipment by	air (ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.



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

15.1.	Safety, health and environ	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or rest	rictions of use					
	Authorizations:	-					
	Restrictions:	-					
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council 18 December 2006 concerning the Registration, Evaluation, Authorisation ar Restriction of Chemicals (REACH), establishing a European Chemicals Agence 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 ar 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 200 on the limitation of emissions of volatile organic compounds due to the use organic solvents in certain paints and varnishes and vehicle refinishing products ar amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safe of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of December 2008 on classification, labelling and packaging of substances ar mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, ar amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certa 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						



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SECTIO	ON 16.	Other information					
16.1.	Indic	cation 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	Classification		Classification procedure				
-			-				
16.5.	Rele	vant H statements (numb	er and full text)				
		315	Causes skin irritation.				
	H:	319	Causes serious eye irritation.				
		335	May cause respiratory irritation.				
16.6.	Train	ning advice:	-				
16.7.			** "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				
			nstructions for use or improper use of the product described in this material safety data sheet.				

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Exposure scenario resulting to Chemical safety assessment

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