

# FEULGEN KIT

The kit contains:

BioSchiff reagent Fast Green F.C.F. contrast reagent HCL reagent, Feulgen Sodium metabisulfite, solution for Feulgen Sodium thiosulfate, 2% solution



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Trading name:	BIOSCHIFF REAGENT					
Product code:	BS-OT-X**	Date of compilation:	17 Jan 2024	Version:	5	

<b>SECT</b>	Product identifier	the substance	e/mixture	e and of the company/undertaking	
•••	Trading name:	BIOSCHIFF	REAGENT		
	Chemical name:	-			
	Catalogue number:	BS-OT-X**			
1.2		es of the subs	tance or n	nixture and uses advised against	
	Uses:		For dete	cting aldehydes and mucous substances.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTION 2. Hazards identification					
2.1	Classification of the substance	r mixture			
2.1.1	Classification according to Reg	ation (EC) No 1272/2008 (CLP)			
	Hazard class and catego	y code: Hazard stat	ements*:		
	-	EUH031			
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	atements: see SECTION 16			
2.2	Label elements				
	Product identification:	BIOSCHIFF REAGENT			
	Identification number:	-			
	Authorization number: -				
	Hazard pictograms:	-			



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	Signal word:	-
	Hazard statements:	EUH031 Contact with acids liberates toxic gas.
	Precautionary statements:	P281 Use personal protective equipment as required.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	erties:
	No known endocrine disrupt	ing properties
	<b>Results of PBT and vPvB as</b> PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

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)		
7681-57-4/ 231-673-0/ 016-063-00-2	01-2119531326-45- XXXX	1 – 3 %	sodium metabisulfite	Acute Tox. 4; H302 Eye Dam. 1; H318 EUH031		
7647-01-0/ 231-595-7/ 017-002-01-X	01-2119484862-27- XXXX	0.7 – 1 %	hydrochloric acid, 36.5%	Skin Corr. 1B; H314 Acute Tox. 3; H331		
569-61-9/ 209-321-2/ 611-031-00-X	-	< 0.1 %	4,4'-(4-iminocyclohexa-2,5- dienylidenemethylene) dianiline hydrochloride; C.I. Basic Red 9	Carc. 1B; H350		

SECT	SECTION 4. First aid measures			
4.1	Description of first aid measure	25		
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.		
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.		



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

SECTION 5. Firefighting measures				
5.1	Extinguishing media			
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam		
	Unsuitable extinguishing media:	Water jet		
5.2	Special hazards arising from the sub	stance or mixture		
	Hazardous combustion products:	Sulfur oxides.		
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 environmen	t 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. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		



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6.1.2.	For emergency responders:						
	Use protective equipment; in (see Section 8).	quipment; in case of inadequate ventilation use adequate airways protective equipment					
6.2	Environmental precautions:						
	Do not dispose of in sewage, Protection and Rescue Direct	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.					
6.3	Methods and material for cor	ntainment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.					
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable contair Store the substance in well ventilated storage rooms until disposal. Sub for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, we the area and 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 protective equipment.					
	See Section 13 for disposal in	formation.					

SECTIO	DN 7. Handling and storage						
7.1	Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire:		Use in well ventilated storage rooms.				
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.				
	Measures to protect the environment:	nment: Prevent spilling into the se and waterways.					
	Other measures:		-				
7.1.2.	Advice on general occupational hygiene:	general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Th	he workspace. Thoroughly wash hands after work and before eating.					
7.2	Conditions for safe storage, including any incom	patibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in well ventilated storage rooms at temperatures rangi from 15 to 25 °C.					
	Packaging materials:	Manufactu containers.	rer's original packaging. Avoid metal				
	Requirements for storage rooms and vessels:	Keep away tightly clos	from food and drink. Keep the containers ed.				



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

SECTION 8. Exp	osure contr	ols/perso	onal protec	tion				
8.1 Control	parameters							
Substar						exposure limit term values	Bic	blogical limit values
				ppm		mg/m³		
sodium metabis	ulfite	7681-57	7-4	-/-		5/-	No i	nformation available
	1							
Substance name	: -	-						
EC No:	-	CAS No	): -					
DNEL								
				Industri	al			
Route of exposure:	Act			ute ystemic		Chronic effect local		Chronic effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal					-			-
Critical physical	parameters:	solubility,	flammabili	ty, corrosivit	ty:	-		
				Consum	er	·		
Route of	Ac	ute	Ac	ute		Chronic		Chronic
exposure:	effect	t local	effect s	ystemic		effect local		effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal	-		-		-			-
PNEC								·
Environmental p	rotection tar	get		PNE	С			



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	Structural measures to prevent exposure:	Use modern equipment.					
	Substance/mixture related measures to prevent exposure:	See Se	ction 6				
8.2.3.	Environmental exposure controls						
8.2.2.4.	Thermal hazards:	No info	No information available				
8.2.2.3.	Respiratory protection:	combii	e mask (EN 136) or half mask (EN 140) equipped with a ned "A1 + Form" filter (EN 143) used when concentration exceed GVI.				
	Other skin protection:		ntistatic clothing made of natural fibers (such as cotton) ng sleeves (EN 340) and shoes that cover the entire foot.				
	Hand protection:		tive nitrile gloves, 0.11 mm thick (EN 374).				
8.2.2.2.	Skin protection						
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.				
8.2.2.	Personal protection equipment						
	Technical measures to prevent ex	xposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.				
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.				
	Structural measures to prevent exposure:	In accordance with Section 7.					
Substance/mixture related measures prevent exposure during identified u			Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
8.2.1.	Appropriate engineering controls	S					
8.2	Exposure controls						
Air			No information available				
Soil (agric	anisms in sewage treatment		No information available				
Food chai			No information available No information available				
Marine se			No information available				
Marine wa			No information available				
Freshwate	er sediments		No information available				
Fresh wat	er		No information available				



exposure:

Technical measures to prevent

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Date of compliation. In Jan 2024 Versit	on: 5	Versio	17 Jan 2024	Date of compilation:	BS-OT-X**	ode:	Product c
Organisational measures to Adapt the work process to the required working condit prevent exposure: workplace.	ions of the	vorking condition	to the required w				

See Section 6

ValueMethodPhysical state:liquidNo information availableColour:colourlessNo information availableOdour/odour threshold:sharp/no information availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availableFlish point:No information availableNo information availablePH:<2No information availableSolubility:No information availableNo information availablePartition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableNo information availableDensity and/or relative densityNo information availableNo information availableNo information availableParticle characteristics:No information availableNo information availableNo information available	Inf	ormation on basic physical and	chemical properties		
Colour:colourlessNo information availableOdour/odour threshold:sharp/no information availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2No information availableSolubility:No information availableNo information availablePartition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableNo information availableRelative vapour density:No information availableNo information availableNo information available			Value	Method	
Odour/odour threshold:sharp/no information availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Ph	ysical state:	liquid	No information available	
Odour/odour threshold:availableNo information availableMelting point / freezing point:No information availableNo information availableBoiling point or initial boiling point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Co	lour:	colourless	No information available	
Boiling point or initial boiling point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Oc	lour/odour threshold:	· ·	No information available	
point and boiling range:No information availableNo information availableFlammability:No information availableNo information availableLover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Me	elting point / freezing point:	No information available	No information available	
Lover and upper explosion limit:No information availableNo information availableFlash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2		5.	No information available	No information available	
Flash point:No information availableNo information availableAuto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Fla	immability:	No information available	No information available	
Auto-ignition temperature:No information availableNo information availableDecomposition temperature:No information availableNo information availablepH:<2	Lo	ver and upper explosion limit:	No information available	No information available	
Decomposition temperature:No information availableNo information availablepH:<2	Fla	ish point:	No information available	No information available	
pH:<2No information availableKinematic viscosity:No information availableNo information availableSolubility:No information availableNo information availablePartition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	Au	to-ignition temperature:	No information available	No information available	
Kinematic viscosity:No information availableNo information availableSolubility:No information availableNo information availablePartition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	De	composition temperature:	No information available	No information available	
Solubility:No information availableNo information availablePartition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	p⊦	:	<2	No information available	
Partition coefficient n- octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	Kir	nematic viscosity:	No information available	No information available	
octanol/water (log value):No information availableNo information availableVapour pressure:No information availableNo information availableDensity and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	So	lubility:	No information available	No information available	
Density and/or relative densityNo information availableNo information availableRelative vapour density:No information availableNo information available	-		No information available	No information available	
Relative vapour density:     No information available     No information available	Va	pour pressure:	No information available	No information available	
	De	ensity and/or relative density	No information available	No information available	
Particle characteristics: No information available No information available	Re	lative vapour density:	No information available	No information available	
	Pa	rticle characteristics:	No information available	No information available	

SECTIO	SECTION 10. Stability and reactivity						
10.1	Reactivity:	No information available					
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.					
10.3	Possibility of hazardous reactions:	No information available					



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10.4	Condition	a ta avaidu		No information ava	ilabla		
10.4	0.4 Conditions to avoid:		No information available				
10.5	Incompat	ble materials:		Strong oxidants (ac	ds).		
10.6	Hazardou	s decomposition prod	lucts:	Sulfur dioxide, sodiu	um oxide.		

11.1 Info	prmation on t	toxicological effects					
	ite toxicity:						
Route of exposure:	Methoc	l Species		e LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Expc	osure time	Results
Oral:	OECD Te Guidelin 401	motaniculinh	ite)	-			1.540 mg/kg (sodium metabisulphi 5.000 mg/kg (C.I. Basic Red
Dermal:	OECD Te Guidelin 402			rmation lable	-		>2.000 mg/k (sodium metabisulphi
Inhalation:	OECD Te Guidelin 403			rmation lable	4h		>5.5 mg/l (sodium metabisulphi
Spe	ecific target c	organ toxicity – single	e exposure (S	STOT SE):			
•	<u> </u>	Specific effects			arget organ		Note
Oral:	No inform	ation available		No information available -			-
Dermal:	No inform	ation available		No inform	-		
Inhalation:	No inform	ation available		No information available -			
Asp	piration hazaı	rd:	No inform	mation avail	able.		
Irrit	ation and co	rrosion					
		Exposure time	Sp	ecies	Evaluati on	Method	Note
Skin corrosion/irr	itation:	-	-		-	-	-
Serious eye damage/irrit	ation	-	-		-	-	-



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Respiratory sensi	itization:	No inf	ormation avail	able			
Sympton	ms relate	ed to the ph	ysical, chemic	al and toxicolog	ical characterist	ics	
Oral exposure:		, .			ipanied by abdo ng and diarrhea.	minal pains and cra	mps; highei
Dermal exposure	e: M	lay cause sk	in irritation.				
Inhalation exposi	ure: e>	posure and		y sensitive perso	-	oncentration, prolon sm may occur, as we	-
Eye exposure:	Μ	lay cause ey	e irritation.				
Repeate	ed dose t	oxicity (sub	acute, subchro	onic, chronic)			
i	D	lose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No in <sup>.</sup> availab	formation le	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 in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Subchronic oral	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Subchronic dermal	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Chronic oral	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Chronic dermal	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-
Chronic inhalation	No in <sup>.</sup> availab	formation le	No information available	No information available	No information available	No information available	-



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		Specific effects	5	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	-	
Subchr	onic dermal	No information available		No information available	-	
Subchronic inhalation No information available			No information available	-		
Chronic	Chronic oral No information available			No information available	-	
Chronic dermal No information available			No information available	-		
Chronic	Chronic inhalation No information available			No information available	-	
	CMR effects (c	arcinogenicity; mutagenicity; re	eproductive toxi	city)		
	Carcinogenicit		No informatio	-		
	Mutagenicity <i>i</i>	n vitro:	No information available			
	Genotoxicity:		No information available			
	Mutagenicity i	n vivo:	No information available			
	Germ cell mut	agenicity:	No information available			
	Reproductive 1	toxicity:	No informatio	n available		
	Summary of properties:	evaluation of the CMR	No informatio	n available		
11.2	Information or	n other hazards:				
11.2.1	Endocrine disr	upting properties:				
	No known en that affect hur	docrine disrupting properties				



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11.2.2 Other informations: -

SECTION 12. Ec	ologio	cal informat	ion				
12.1 Toxicity	,						
Acute (short-ter toxicity	m)	Dose	Exposure time	Species	Method	Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	Golden orfe (sodium metabisulphite) Mosquito fish (hydrochloric acid)	No information available	316 mg/l (sodium metabisulphite) 282 mg/l (hydrochloric acid)	-
Crustacea:		EC <sub>50</sub>	48 hours	Daphnia magna (sodium metabisulphite)	No information available	89 mg/l (sodium metabisulphite)	-
Algae/aquatic plants IC <sub>50</sub>		4 days	Green algae (sodium metabisulphite)	No information available	43.8 mg/l (sodium metabisulphite)	-	
Other organisms	5	-	-	-	-	-	-
Chronic (long-te toxicity	erm)	Dose	Exposure time	Species	Method	Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants		IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	S	-	-	-	-	-	-
		nd degradab	oility				
Abiotic							
	De	gradation ha	alf-lives	Method	Evaluatior		ote
Marine water	No in	formation a	vailable	No information available	No information available	on -	



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Product code:	BS-OT->	<b>X</b> **	Da	te of compilatior	n: 17 Jan 2	2024	Version:	5
Fresh water	No informat	ion available	No in availa	formation	No informati available	on _		
Air	No informat	ion available	No in availa	formation Ible	No informati available	on _		
Soil	No informat	ion available	No in availa	formation Ible	No informati available	on _		
Biodec	radation							
% Degradatic		me (days)		Method	Evaluatio	n	Note	
No information available		information	No ir availa	formation	No informati available	on No	information ilable	
	umulative pot		(1)(					
	Concentratio n	ion coefficient pH	°C	Method	Evaluat	ion	Note	
		-	-	-	-		-	
Biocon	centration fac	tor (BCF)						
Value	S	pecies		Method	Evaluatio	n	Note	
No information available	No available	information	No in availa	formation ble	No informati available	on _	-	
Chroni	c ecotoxicity					:		
Value	Do	SA I	osure ime	Species	Method	Evaluatio	on Note	9
Chronic toxicity on fish	LC <sub>50</sub>	No infor	rmatio ailable	No information available	No information available No information available		-	



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on crust	nronic toxicity n crustacea EC <sub>50</sub> Daphnia)		Informatio	informatio No information information		rmation lable	No informati on available	ormati -			
12.4	Mobilit	v in soi	1								
		•	dicted distributi	on in environm	ental d	compartme	ents:				
		•	n available								
	Surface										
	Valu		°C	Concentra	ition		Meth	od		Note	
	No informa availab		No information available	No informa available	tion	No infori available		'n	-		
Transpo	•	A/D o	lesorption coefficient	log Kow	E	vaporation	rate	N	lethod	Note	9
	N		's constant information	No information		o informat			ormation		
Soil-wat	er av	ailable		available	av	vailable		availab	le	-	
Water-a	nir No av	o railable	information	No informatio available		o informat ⁄ailable	ion	No info availab	ormation le	-	
Soil-air	No av	o 'ailable	information	No informatio available		No information No inform available available			-		
12.5.			and vPvB asses								
	Substar	nce(s) ii	n the mixture d	o(es) not meet	the cri	teria for PE	BT or	vPvB			
12.6.	Endocri	ine disr	upting properti	ies							
	accordi	ng to F	/mixture does r REACH Article 5 J) 2018/605 at l	7(f) or Commis	sion De	elegated re					
12.7.	Other a	dverse	effects								
14.1.	2										
12.7.	No info	rmatio	n available								



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Trading name:	BIOSCHIFF REAGENT				
Product code:	BS-OT-X**	Date of compilation:	17 Jan 2024	Version:	5

13.1	Waste treatment methods			
	i .			
13.1.1.	Product/Packaging disposal:	Product/Packaging disposal:		
	Submit for disposal to the lega Protection.	al person authorized by the Ministry of Environmental and Nature		
13.1.2.	Waste codes/waste designatio			
	Packaging that contains residu	al hazardous substances or is contaminated with hazardous substances		
13.1.3.	Waste treatment – relevant inf	ormation:		
	No information available			
	1			
13.1.4.	Sewage disposal – relevant info	ormation:		
	Waste must not be disposed o	f into the sewage system.		
13.1.5.	Other disposal recommendation	ons:		
	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 provision	IS:		
	-			
SECTION	14. Transport information			
-	Transporting/shipment by road (	(ADR)		
UN numb		Not subject to transport regulations		
UN prope	er shipping name:	-		
Transport	hazard class(es):	-		
Packing g	jroup:	-		
	entally hazardous:	-		
Special precautions for user: -				
i	Transporting/shipment by rail (R	T		
UN number:		Not subject to transport regulations		
	er shipping name:	-		
	t hazard class(es):	-		
Packing g	-	-		
Environm	entally hazardous:	-		



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Trading name:		BIOSCHIFF REA	GENT		
Product code:	BS-OT-X**	Date of compilation:	17 Jan 2024	Version:	5

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:	-
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: -	

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



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BIOSCHIFF REAGENT					
5					

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

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



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

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Trading name:	BIOSCHIFF REAGENT				
Product code:	BS-OT-X**	Date of compilation:	17 Jan 2024	Version:	5

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classifi	cation	)	Classification procedure			
-			-			
16.5.	Rele	evant H statements (num	ber and full text)			
	302		Harmful if swallowed.			
		314	Causes severe skin burns and eye damage			
	H:	318	Causes serious eye damage.			
		331	Toxic if inhaled.			
		350	May cause cancer.			
		EUH031	Contact with acids liberates toxic gas.			
16.6.	Trai	ning advice:	-			
	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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Trading name:	FA	FRAST REAGENT			
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

1.1	Product identifier				
	Trading name:	FAST GREE	N F.C.F. CC	ONTRAST REAGENT	
	Chemical name:	-			
	Catalogue number:	FGKR-OT-X	**		
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		Counter	stain used with Grocott staining kit.	
	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	e-mail of competent person:		msds@biognost.hr	
	National contact:	National contact:		-	
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	National Protection and Rescue Dire		112	
	Medical information:			-	
	Other information:			-	

SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture			
2.1.1	Classification according to Regu	ulation (EC) No 12	72/2008 (CLP)	
	Hazard class and catego	ory code:	Hazard statements*:	
	Not identified as hazardous substance			
2.1.2.	Additional information			
	-			
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16	
2.2	Label elements			
	Product identification:	FAST GREEN F.C	.F. CONTRAST REAGENT	
	Identification number:	-		
	Authorization number:	-		
	Hazard pictograms:	-		



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT				
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

	Signal word: -
	Hazard statements: -
	Precautionary statements: -
	Supplemetal hazard
2.3	Other hazards
	other hazarda
	The product has no other known specific hazards for human or environment.

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

SECTI	ECTION 4. First aid measures					
4.1	Description of first aid measures					
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.				
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.				
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.				
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.				
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.				
	Self-protection of the first aider:	-				
4.2	Most important symptoms and ef	fects, both acute and delayed				
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT				
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4
					i
Followin	g skin contact:	According to our findings, o		-	

	Tonowing skin contact.	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		
	-		

SECTI	SECTION 5. Firefighting measures					
5.1	Extinguishing media					
	Suitable extinguishing media:	water spray, dry powder, CO2 or alcohol resistant foam				
	Unsuitable extinguishing media:	Water with full jet.				
5.2	Special hazards arising from the sub	ostance or mixture				
	Hazardous combustion products:	no information available				
5.3	Advice for firefighters					
	Use a self-contained open-circuit co	ompressed air breathing apparatus and fireproof clothing.				
5.4	Additional information					
	Cool endangered receptacles with w contaminate the environment with e	vater spray. Collect contaminated firefighting water separately. Do not extinguishing media.				

SECTIO	SECTION 6. Accidental release measures					
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 member without protective equipment. Avoid breathing vapors and avoid conta 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 containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials				



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Trading name:			FAST GREEN F.C.F. CONTRAST REAGENT					
Produ	ict code:	de: FGRK-OT-X** Date of compilation: 23 Dec 2022 Version:					4	
6.3.2.	Cleaning	ıb:	materi contai dispos Minist	e possible, the substance c al. Place the waste materia ners. Store the substance al. Submit for disposal to ry of Environmental and N cts, wash the area and inv	al in tightly closed im in well ventilated stor the legal persons aut lature Protection. Aft	permeable rage rooms until chorized by the er disposal of the		
6.3.3.	Other info	ormation:	Secure proper ventilation. Do not use incompatible materials (see Section 10).					
6.4	Reference	leference 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	ON 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Measures to prevent fire:				
	Measures to prevent aerosol and dust generatio	n:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incom	patibilities				
	Technical measures and storage conditions:	well ventil	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.			
	Packaging materials:	Manufactu	ırer's original packaging.			
	Requirements for storage rooms and vessels:	Requirements for storage rooms and vessels: Keep away from food and drink. Keep the containe tightly closed.				
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.			



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Trading name:		FAST GREEN F.C.F. CON	TRAST REAGENT		
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

	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. Expos	sure contro	ols/perso	onal pr	otection				
8.1 Control p	arameters							
Substance		CAS No		Occupational exposure limit values/short term values			Biological limit values	
					ppm	mg/m <sup>3</sup>		
-			-		-	-		-
Cultateners								
Substance name: EC No:	-	CAS No		-				
	-	CAS NO		-				
DNEL				In	dustrial			
Route of exposure:	Acu effect			Acute ct systemi		Chronic effect local		Chronic effect systemic
Oral	-		-	,	-			-
Inhalation	-		-		-			-
Dermal	-		-		-			-
Critical physical pa	rameters: s	olubility,	flamm	ability, co	rrosivity:	-		
				Co	nsumer			
Route of exposure:	Act effect		effe	Acute ct systemi	c	Chronic effect local		Chronic effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal	-		-		-			-
PNEC								
Environmental pro	tection tar	get			PNEC			
Fresh water					no infor	mation available	e	
Freshwater sedime	ents				no information available			



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT				
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

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 information available

8.2	Exposure controls						
8.2.1.	Appropriate engineering controls						
	Substance/mixture related measures to prevent exposure during identified uses:Structural measures to prevent exposure:Organisational measures to prevent exposure:Technical measures to prevent exposure:		protective equipment. Do not eat, drink or smoke in the				
			In accordance with Section 7.				
			Organization of work in order to reduce other worker's influence during work process.				
			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 equipmen	t					
8.2.2.1.	Eye and face protection:	levels o	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	i.					
	Hand protection:	•	otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min				
	Other skin protection:	footwe entire impern	every day work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.				
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI				
8.2.2.4.	Thermal hazards:	No info	ormation available				
8.2.3.	Environmental exposure contro	ols					



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Trading name:		FAST GREEN F.C.F. CON	TRAST REAGENT		
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

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

I	Information on basic physical and	chemical properties		
		Value	Method	
	Physical state:	liquid	No information available	
	Colour:	green	No information available	
	Odour/odour threshold:	no information available	No information available	
	Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lover and upper explosion limit: Flash point: Auto-ignition temperature:	No information available	No information available	
	<b>U</b> .	No information available	potentiometric measurement	
	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	
	Flash point: Auto-ignition temperature: Decomposition temperature: pH:	No information available	No information available	
	Partition coefficient n- octanol/water (log value):	No information available	No information available	
	Vapour pressure:	No information available	No information available	
	Density and/or relative density:	No information available	No information available	
	Relative vapour density:	No information available	No information available	
	Particle characteristics:	No information available	No information available	
9.2	Other information			

SECTION 10. Stability and reactivity	
10.1 Reactivity:	See subsections 10.3 through 10.5.



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Tradir	ng name:		FAST GREEN F.C.F. CON	AST GREEN F.C.F. CONTRAST REAGENT				
Produ	ict code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version: 4			
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	No dangerous reactions known.				
10.4	Conditions to avoid:		No information available	No information available				
10.5	Incompati	ble materials:	No information available	9				
10.6	Hazardou	s decomposition produc	ts: No information available	9				

SECTION 11. Toxic					70/0000			
		classes as defined i	in Regu	lation (EC) No 12	72/2008			
Acute toxic Route of exposure:	Method Species		Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>		Exposure	time	Results	
Oral:	-	No information available		-	No informati available	on	-	
Dermal:	-	No information available		-	No information available		-	
Inhalation:	-	No information available		-	No information available		-	
Specific tar	get organ to	xicity – single expo	osure (S	TOT SF):				
<b></b>		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 available				
Aspiration	hazard:	Ν	lo inforr	mation available.				
Irritation ar	nd corrosion							
i	Expo	osure time	Speci	ies Evaluat	ion Metho	d	Note	
Skin corrosion/irritation:	-	-		-	-	-		
Serious eye damage/irritation	-	_		-	-	-		
Sensitizatio	n							
Skin sensitization:	-							
Respiratory sensitiza	ation: -							



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

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Trading name:	F/	AST GREEN F.C.F. CONT	<b>FRAST REAGENT</b>		
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

Oral exposure: No information		on available.				
Dermal exposure	e: No informat	on available.				
Inhalation expos	ure: No informat	on available.				
Eye exposure:	No informat	on available.				
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
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 n	name:	FA	AST GR	EEN F.C.F. C	ONT	<b>FRAST REAGENT</b>		
Product c	code:	FGRK-OT-X**	Date of compilation:		on:	23 Dec 2022	Version: 4	
Subacute oral No information available			able		No ir	nformation available	-	
Subacute dermal No information available		able		No ir	nformation available	-		
Subacute i	inhalation	No information availa	able		No ir	nformation available	-	
Subchroni	c oral	No information availa	able		No ir	nformation available	-	
Subchronic dermal		No information availa	able		No ir	nformation available	-	
Subchroni	c inhalatio	n No information availa	able		No ir	nformation available	-	
Chronic oral		No information availa	able		No ir	nformation available	-	
Chronic dermal		No information availa	able		No ir	nformation available	-	
Chronic in	halation	No information availa	able		No ir	nformation available	-	
C	MR effects	carcinogenicity; mutage	nicity; re	productive to	xicity	/)		
	Carcinogenicity:			Based on available data, the classification criteria are not met.				
N	Mutagenicity <i>in vitro</i> :			Based on available data, the classification criteria are not met.				
G	Genotoxicit	y:		Based on available data, the classification criteria are not met.				
N	lutagenici	ty in vivo:		Based on available data, the classification criteria are not met.				
G	ierm cell m	nutagenicity:		Based on available data, the classification criteria are not met.				
R	eproductiv	ve toxicity:		Based on available data, the classification criteria are not met.				
	ummary roperties:	of evaluation of the	CMR	Based on ava met.	ailab	le data, the classificati	on criteria are not	
		on other hazards:						
		lisrupting properties:						
	ased on a ndocrine d	ivailable data, does not c lisruptors.	contain	-				
11.2.2. O	Other inform	mations:						
-								

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



Fresh water

No information available

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

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Trading name:		FAST GREEN F.C.F. CON	TRAST REAGENT		
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No inforn availa		-
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No inforn availa		-
Algae/aquatic p	olants	IC <sub>50</sub>	4 days	No information available	No information available	No information available		-
Other organism	าร	-	-	-	-	-		-
Chronic (long-t toxicity	erm)	Dose	Exposure time	Species	Method	Evalu	ation	Note
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No inforn availa		-
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No inforn availa		-
Algae/aquatic p	olants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available		-
Other organism	าร	-	-	-	-	-		-
12.2 Persist	ence a	nd degradab	ility					
Abiotio	c degra	dation						
Degradation half-lives Method Evaluation Note					Note			
Marine water	No ir	formation av	vailable	No information available	No informatio available	n	-	
Fresh water No information available			No information	No informatio	n	_		

Air	No information ava	ilable No information available	No information available	-
Soil	No information ava	ilable No information available	No information available	_
Biodegi	radation			
% Degradatio	n Time (day	vs) Method	Evaluation	Note
No information available	No infor available	mation No information available	No information available	No information available

available

available



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Tradin	g name:	FAST GREEN F.C.F. CONTRAST REAGENT										
Product code: FGRK-OT-X**				Date	e of co	mpilati	on: 23 Dec	2022		Version:	4	
12.3	Bioaccum	ulative p	otential									
	Octanol-w	ater pa	tition coef	ficient (	log Kow	)						
Valu	ie Co	ncentrat	ion l	эΗ	°C	М	ethod	Evalu	ation		Note	
-	-		-		-	-		-		-		
	Bioconcer	tration	factor (BCF	)								
	/alue		Species		1	Metho	b	Evaluati	on		Note	
No info availab	ormation le	No availat		nation	No info availab		on	No information available		-		
	Chronic e	cotoxicit	У									
	Value		Dose		oosure ime	Sp	ecies	Method	Evalu	ation	Note	l.
Chronie	c toxicity on	fish	LC <sub>50</sub>	No information available		No infor availa	mation able	No information available	No inform availab		-	
	c toxicity on ea ( <i>Daphnia</i>		EC <sub>50</sub>	No informatior available		No infor availa	mation able	No information available	No informatior available		-	
						•						
12.4	Mobility ir	n soil										
		-	ed distribut	ion in e	environm	nental	compart	ments:				
	No inform		ailable									
	Surface tension:											
	Value		°C	C	oncentra	ation		Method			Note	
		o ormation ailable		informa ailable	tion	No inf availat	ormation ole	-				



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Trading name:		FAST GREEN F.C.F. CON	TRAST REAGENT		
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

	Adsorption / desorption				
Transpo	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wa <sup>-</sup>	ter No information available	No information available	No information available	No information available	-
Water-a	air No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5	Results of PBT and vPvB asse			D. D. substan	
	Based on available data, the	product does no	ot contain any PBT or v	PVB substances.	
12.6.	Endocrine disrupting propert		· · · ·		
	Based on available data, does	s not contain en	docrine disruptors.		
107					
12.7.	Other adverse effects				
	No information available				
CECTIO	N 12 Diseased souside estimation	-			
13.1	N 13. Disposal consideration	IS			
15.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	ŀ			
13.1.1.	Submit for disposal to the l		horized by the Ministr	v of Environmental	and Nature
	Protection.	egui person dut	nonzed by the minist	y of Environmental	
13.1.2.	Waste codes/waste designa	ations according	to Law:		
	15 01 10*: Packaging that c substances	ontains residual	hazardous substance	s or is contaminated	d with hazardous
13.1.3.	Waste treatment – relevant	information:			
	No information available				
	1				
	Sewage disposal – relevant				



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Trading name:	F/	AST GREEN F.C.F. CON	TRAST REAGENT		
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

	Waste must not be dispo	sed of into the sewage system.
13.1.5.	Other disposal recomme	ndations:
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.
13.1.6.	Relevant Community pro	visions:
SECTIO	N 14. Transport informatio	on
	Transporting/shipment by	road (ADR)
UN num	ıber:	Not subject to transport regulations
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by	rail (RID)
UN number:		Not subject to transport regulations
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Inland waterway transport	(ADN)
UN num	ıber:	Not subject to transport regulations
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by	sea (IMDG)
UN number:		Not subject to transport regulations
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT				
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4

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 environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or re	estrictions 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; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			



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Trading name:		FAST GREEN F.C.F. CON	TRAST REAGENT		
Product code:	FGRK-OT-X**	Date of compilation:	23 Dec 2022	Version:	4
1					
	Chemic	als Act. Regulation on classifica	tion nackaging and	labeling of dange	erous

2	Chemical safety assessment			
	National legislation:	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		

None

15.2

SECTIO	SECTION 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>			
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	cation	Classification procedure			
-		-			
16.5.	Relevant H statements (numb	er and full text)			
	H: -	-			
16.6.	Training advice:	-			
16.7.	Further information:	<ul> <li>** "X" in the product code marks different volumes (different packagings of the product)</li> <li>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.</li> </ul>			

#### ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:		HCL REAGENT, FE	ULGEN		
Product code:	HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

1.1	ION 1: Identification of the substance/mixture and of the company/undertaking Product identifier				
	Trading name:	HCL REAGE	ENT, FEULGEN		
	Chemical name:	-			
	Catalogue number:	HCLF-OT-X	**		
1.2	Relevant identified use	Relevant identified uses of the substance or mixture and uses advised against			
	Uses:		For use	with special staining kits in histopathology.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone number				
	National Protection and Rescue Direct		ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substar	Classification of the substance or mixture			
2.1.1	Classification according to I	Regulation (EC) No 1	272/2008 (CLP)		
	Hazard class and ca	tegory code:	Hazard statements*:		
	Skin Corr. 1A		H314		
	STOT SE 3		H335		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Haza	ard-statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	HCL REAGENT,	FEULGEN		
	Identification number:	-			
	Authorization number:	-			



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Trading name:		HCL REAGENT, FE	ULGEN		
Product code:	HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	Hazard pictograms:	GHS05 GHS07
	Signal word:	Danger
	Hazard statements:	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
	Precautionary statements:	<ul> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308 + P313 IF exposed or concerned: Get medical advice/attention.</li> </ul>
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Propertie	

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)
7647-01-0/ 231-595-7/ 017-002-00-2	01-2119484862-27- xxxx	40 - 45 %	hydrochloric acid, 37%	Skin Corr. 1A; H314 STOT SE 3; H335

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



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Trading name:	HCL REAGENT, FEULGEN						
Product code:	HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

4.5	-				
4.3	Indication of any immediate medical attention and special treatment needed				
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.			
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.			
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.			
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.			
4.2	Most important symptoms and effects, both acute and delayed				
	Self-protection of the first aider:	-			
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.			
	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.			

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

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



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Trading name:	HCL REAGENT, FEULGEN					
Product code:	HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in a (see Section 8).	case of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, o Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.			
6.3	Methods and material for con-	tainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).			
6.4	Reference to other sections				
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.				

SECTIO	SECTION 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2	Conditions for safe storage, including any incompatibilities				



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Trading name:	HCL REAGENT, FEULGEN						
Product code:	HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufacturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).		
7.3	Specific end use(s)			
	Recommendations:	-		
	Industrial sector specific solutions:	-		

SECTIO	N 8. Exposı	ire contro	ols/perso	onal pr	otec	tion					
8.1	Control par	rameters									
	Substance		CAS No		Occupational exposure limit values/short term values			Biological limit values			
						рр	m	n	ng/m³		
Hydrog	en chloride		764	7-01-0		5/1	0		8/15	-	
l											
Substan	ice name:	-									
EC No:		-	CAS No	:	-						
DNEL											
						Indus	strial				
Route o	of	Αςι	ıte		Acut	te		Ch	ironic		Chronic
exposu	re:	effect	local	effe	ct sys	stemic		effe	ct local		effect systemic
Oral		-		-			-				-
Inhalatio	on	-		-			-				-
Dermal		-		-			-				-
Critical	physical para	ameters: s	olubility,	flamm	abilit	y, corros	sivity:		-		
						Consu	umer				
Route o	of	Ad	cute		Acut	e Chronic			Chronic		
exposu	re:	effec	t local	effe	ct sys	stemic		effe	ct local		effect systemic



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Trading name:		HCL REAGENT, FE	ULGEN		
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Oral	-	-		-	-
Inhalation	-	-		-	-
Dermal	-	-		-	-
PNEC					
Environmental prote	ction target		P	NEC	
Fresh water			no information available		
Freshwater sediment	ts		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 information available		

0.2	Functional construction		
8.2	Exposure controls		
8.2.1.	Appropriate engineering controls		
	Substance/mixture related measures t prevent exposure during identified use		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:		
	Technical measures to prevent expo	exposure: Secure proper workspace ventilation in order to ke exposure: concentration levels in air below permitted levels. stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment		
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.
8.2.2.2.	Skin protection		
		•	otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min



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Trading name:	HCL REAGENT, FEULGEN							
Product code:	HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4			
		During everyday work us	e cotton clothing (E	N 340) and suita	able			

	Other skin protection:	entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

SECT	FION 9. Physical and chemical properties						
9.1	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Color:	transparent	No information available				
	Odour/odour threshold:	biting/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				



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Tradi	rading name:		HCL REAGENT, FEULGEN					
Produ	Product code: HCLF-OT-X** D		Date of compilation:	21 Dec 2022	Version:	4		
	Vapour p	ressure:	No information available	No information	available			
		nd/or relative density	No information available	No information	available			
	Relative <b>v</b>	apour density:	No information available	No information	available			
	Particle c	haracteristics:	No information available	No information	available			
9.2	Other inf	ormation						
	-							

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

11.1 Inform	nation on toxicological effe	ects			
Acute	toxicity:				
Route of exposure:	Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure time	Results
Oral:	No information available	-	No information available	-	-
Dermal:	No information available	-	No information available	-	_
Inhalation:	No information	_	No information		_
	available		available	-	_
	available		available	-	-
	available fic target organ toxicity – s	ingle exposure			
		<b>J</b> .		n	Note
	fic target organ toxicity – s	ffects	(STOT SE):		Note
Speci	fic target organ toxicity – s Specific e	ffects	(STOT SE): Target orga	able -	Note
Speci Oral:	fic target organ toxicity – s Specific e No information avai	ffects lable lable	(STOT SE): Target orga No information avail	able - able -	Note
Specit Oral: Dermal:	fic target organ toxicity – s Specific e No information avai No information avai	ffects lable lable	(STOT SE): Target orga No information avail No information avail	able - able -	Note
Oral: Dermal: Inhalation:	fic target organ toxicity – s Specific e No information avai No information avai	ffects lable lable lable	(STOT SE): Target orga No information avail No information avail	able - able -	Note



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							ł	Page 9 of 16	
Trading name:				HCL REAG	ENT, F	EULGEN	J		
Product code:	Н	CLF-OT-X**	D	ate of compila	ition:	21 De	ec 2022	Version:	4
		- Evpocur	o timo	Spacias	Evolu	ation	Method	Noto	
Skin		Exposur		Species	Evalu	ation	Method	Note	
corrosion/irritati	ion:	-	-		-				
Serious eye damage/irritatio	on	-			-				
Sensitiz	zation								
Skin sensitizatio	n:	No inf	ormation avai	ilable.					
Respiratory sens	sitizatio	on: No inf	ormation avai	ilable.					
Sympto	oms rel	lated to the ph	nysical, chemi	cal and toxicolo	gical ch	aracteris	tics		
Oral exposure:		No informati	on available.						
Dermal exposure	e:	No informati	on available.						
Inhalation expos	sure:	No informati	on available.						
Eye exposure:		No informati	on available.						
Ĩ									
Repeat	ed dos	e toxicity (sub		onic, chronic)					
		Dose	Exposure time	Species	Met	hod	Evaluation	Note	
Subacute oral	No avai	information lable	No information available	No information available		rmation able	No informatio available	n -	
Subacute dermal		information lable	No information available	No information available		mation able	No informatio available	n -	
Subacute inhalation		information lable	No information available	No information available		mation able	No informatio available	n -	
Subchronic oral		information lable	No information available	No information available		mation able	No informatio available	n -	
Subchronic dermal		information lable	No information available	No information available		mation able	No informatio available	n -	
Subchronic inhalation		information lable	No information available	No information available		rmation able	No informatio available	n -	
Chronic oral		information lable	No information available	No information available		rmation able	No informatio available	n -	



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						<b></b>	r.	age 10 of 10	5
Trading name:				HCL REAG	ENT, F				
Product code:	HC	LF-OT-X**	Da	ate of compila	tion:	21 Dec	2022	Version:	4
Chronic dermal	No availa	information ble	No information available	No information available	No infor avail	rmation able	No informatio available	n -	
Chronic inhalation	No availa	information ble	No information available	No information available	No infor avail	rmation able	No informatio available	n -	
Specific	target	organ toxicit	y – repeated e	exposure (STOT	RE):				
	5		Specific effe	-		Target o	rgan	Note	3
Subacute oral		No informa	tion available		No in	formation	-	_	
Subacute derma		No informa	tion available		No in	formation	available	-	
Subacute inhalat	ion	No informa	tion available		No in	formation	available	-	
Subchronic oral		No informa	tion available		No in	formation	available	-	
Subchronic derm	nal	No informa	tion available		No in	formation	available	_	
Subchronic inhal	ation	No informa	tion available		No in	formation	available	-	
Chronic oral		No informa	tion available		No in	formation	available	-	
Chronic dermal		No informa	tion available		No in	formation	available	-	
Chronic inhalatio	on	No informa	tion available		No in	formation	available	-	
CMR ef	fects (ca	arcinogenicit	y; mutagenicit	y; reproductive	toxicity	')			
Carcino	genicity	/:		Based on availa	able da	ta, the cla	ssification cr	iteria are not	: met.
Mutage	nicity <i>ii</i>	n vitro:		Based on availa	able da	ta, the cla	ssification cr	iteria are not	t met.
Genoto	xicity:			Based on availa	able da	ta, the cla	ssification cr	iteria are not	: met.
Mutage	nicity <i>ii</i>	n vivo:		Based on availa	able da	ta, the cla	ssification cr	iteria are not	: met.
Germ ce	ell muta	agenicity:		Based on availa	able da	ta, the cla	ssification cr	iteria are not	: met.
Reprod	uctive t	oxicity:		Based on availa	able da	ta, the cla	ssification cr	iteria are not	: met.
Summa propert		evaluation	of the CN	MR Based on met.	availab	le data, t	he classifica	tion criteria	are not
11.2 Informa	ition or	other hazar	ds:						
11.2.1. Endocri	ne disru	upting prope	rties:						
		ocrine disrup nan health.	ting propertie	25					
11.2.2. Other in	nformat	ions:		·					
_									



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Trading name:		HCL REAGENT, FE	ULGEN		
Product code:	HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

12.1 Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-	
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-	
Algae/aquatic plants	IC <sub>50</sub>	4 days	No information available	No information available	No information available	-	
Other organisms	-	-	-	-	-	-	
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-	
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-	
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-	
Other organisms	-	-	-	-	_	-	

Abioti	c 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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Trading name:	HCL REAGENT, FEULGEN						
Product code:	HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

		Ti	me (days)	)	N	/lethod			Evaluatio	n		Note
		No availab	No information available		No information available		No information available		No information available			
12.3.	Bioaccum	ulative pot	ential									
	Octanol-w	ater partit	ion coeffi	icient (	log Kow	)						
Valu	ie Coi	ncentratio	n p	H	°C	M	ethod		Evalu	ation		Note
-	-		-		-	-			-		-	
	Bioconcen											
	/alue		pecies			Method			Evaluation		Note	
No info availab	ormation le	No available				No information available			No information available		-	
	Chronic ec	otoxicity										
	Value	<u> </u>	Dose	Exposure time		Spe	ecies	ſ	Vethod	Evalu	uation	Note
Chronie	c toxicity on	fish L	-C <sub>50</sub>	No information available		No infori availa	mation able			No inform availat		-
	c toxicity on ea ( <i>Daphnia</i>	) E	EC <sub>50</sub>	No information available		No infori availa	mation able		o ormation ailable	No inform availat		-
				:		:		:		:		:
12.4.	Mobility in	soil										
	Known or	predicted	distributi	on in e	environm	nental o	compar	tmer	its:			
	No inform	ation avail	lable									
	Surface te	nsion:										
	Value		°C	C	oncentra	ation		М	ethod			Note
	No No No		informa iilable	ition	No in availa		ation	_				



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Trading	nam	e:	HCL REAGENT, FEULGEN							
Product	t code	e:	HC	LF-OT-X**		Date of	compilation:	21 Dec 2022	Version:	4
	۵dsou	rntion	n / de	esorption						
	7.0301	<u> </u>		oefficient						
Transpor	rt			s constant	log	Kow	Evaporation rat	e Method	Note	
Soil-wate	er 👘	No availa	ble	information	No info availabl	ormation le	No information available	No information available	-	
Water-ai	ır	No availa	ble	information	No info availab	ormation le	No information available	No information available	-	
Soil-air		No availa	ble	information	No info availabl	ormation le	No information available	No information available	-	
12.5.	Resul	ts of I	PBT a	and vPvB asses	sment					
	Not a	pplica	able.							
				ipting properti			<u> </u>			
	No kr	nown	ende	ocrine disruptii	ng prope	erties that	affect the enviro	nment.		
12.7.	Other	r adve	arce 4	effects						
				vant informatio	on availa	ble.				
SECTION	N 13. I	Dispo	osal (	consideration	5					
13.1	Was	ste tre	eatm	ent methods						
13.1.1.	Pro	duct/	Pack	aging disposal	:					
		omit fo tectio		sposal to the le	egal pers	on autho	rized by the Minis	stry of Environment	al and Nature	
13.1.2.				/waste designa						
	15 01 10*: Packaging that contains residual hazardous substances or is contaminated with hazardous substances									
13.1.3.				ient – relevant	informat	ion:				
	No	Intorr	matio	on available						
13.1.4.	Sout	1200	dicor	sal - relovant	informat	ion <sup>.</sup>				
15.1.4.	264	Sewage disposal – relevant information:								



			<b>·</b> • • •		Page 14 of 16	,			
Trading name:			HCL REAGENT, F	FEULGEN					
Product	t code:	HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4			
	Waste	must not be disposed	d of into the sewage system.						
13.1.5.	Other c	disposal recommenda	tions:						
	authori	ized by the ministry in	ict's remains into the sewage systen in charge. Do not dispose of the pa ors authorized by the ministry in o	ackaging into the sev					
13.1.6.	Relevar	nt Community provisio	ons:						
	Disposa	al must be made acco	ording to official regulations.						
		nsport information							
	Transport	rting/shipment by road	d (ADR)						
UN num	ıber:		1760						
	per shippir		Corrosive liquid, n.o.s. (Hydro	chloric acid)					
	rt hazard o	class(es):	8	8					
Packing	group:								
		nazardous:	-						
Special r	precautior	ns for user:	-						
	Transport	rting/shipment by rail	(RID)						
UN num	ıber:		1760						
UN prop	per shippir	ng name:	Corrosive liquid, n.o.s. (Hydrochloric acid)						
Transpor	rt hazard o	class(es):	8						
Packing	group:								
Environr	nentally h	nazardous:	-						
Special r	precautior	ns for user:	-						
	Inland wa	aterway transport (AD	N)						
UN num	ıber:		1760						
UN prop	per shippir	ng name:	Corrosive liquid, n.o.s. (Hydro	chloric acid)					
Transpor	rt hazard o	class(es):	8						
Packing	group:		III						
Environr	nentally h	nazardous:	-						
Special r	precautior	ns for user:	-						
	Transport	rting/shipment by sea	(IMDG)						
UN num	ıber:		1760						
UN prop	per shippir	ng name:	Corrosive liquid, n.o.s. (Hydro	chloric acid)					
Transpo	rt hazard o	class(es):	8						

III

Packing group:



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Trading name:	HCL REAGENT, FEULGEN					
Product code:	HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

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:	1760
UN proper shipping name:	Corrosive liquid, n.o.s. (Hydrochloric acid)
Transport hazard class(es):	8
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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



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Trading name:			HCL REAGENT, FEULGEN						
Product code: HCLF-OT-X**		HCLF-OT-X**	Date of compilation:	21 Dec 2022	Version:	4			
	National I	egislation:	Chemicals Act, Regulation on class dangerous substances, Ordinance and on biological limit values, Reg classification of waste with a waste Ordinance on writing Material safe Substances Act	on occupational exp ulation on categorie catalog and list of	posure limit values es, types and hazardous waste,				
15.2	Chemical	Chemical safety assessment							
	None								

SECTIC	DN 16	6. Other information			
16.1	Ind	ication of changes:	-		
			PBT	Stable, bioaccumulative and toxic	
			vPvB	Strongly stable and strongly bioaccumulative.	
16.2	Abł	previations and acronyms:	LD <sub>50</sub>	Lethal dose, 50%	
			LC <sub>50</sub>	Lethal concentration, 50%	
			тсој	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:		-		
16.4.	16.4. Classification and procedure u 1272/2008 (CLP)			rive the classification for mixture according to Regulation (EC)	
Classifi	catior	ו	Classificat	ion procedure	
-			-		
16.5.	Rele	evant H statements (numb	er and full	text)	
	H:	H314	Causes se	vere skin burns and eye damage.	
		H335	May cause	e respiratory irritation.	
16.6.	Trai	ining advice:	-		
	16.7. Further information:		** "X" in the product code marks different volumes (different packagings of the product)		
16.7.			instruction	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:	SODIUM METABISULFITE, SOLUTION FOR FEULGEN					
Product code:	NH-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

SECTI	ON 1. Identification of t	the substan	nce/mixture a	and of the company/undertaking			
1.1.	Product identifier						
	Trading name:	SODIUM	ODIUM METABISULFITE, SOLUTION FOR FEULGEN				
	Chemical name:	-					
	Catalogue number:	NMF-OT-	X**				
1.2.	Relevant identified use	es of the sub	ostance or mi	xture and uses advised against			
	Uses:		For use with	Feulgen staining kit.			
	Uses advised against:		Only the ider	ntified uses are advised.			
	Reason why uses advis against:	sed	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 safet	ety data sheet				
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997				
	Fax no.:		+385 1 24040	)39			
	e-mail of competent p	erson:	msds@biognost.hr				
	National contact:		-				
1.4.	Emergency telephone	number					
	National Protection an	id Rescue D	irectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	CTION 2. Hazards identification							
2.1.	Classification of the substance or	Classification of the substance or mixture						
2.1.1.	Classification according to Regula	tion (EC) No 12	72/2008 (CLP)					
	Hazard class and category	code:	Hazard statements*:					
	Not identified as hazardous subst	ance.	-					
2.1.2.	Additional information							
	-							
*For ful	l text of Hazard- and EU Hazard-sta	tements: see Se	ection 16					
2.2.	Label elements							
	Product identification:	SODIUM MET	ABISULFITE, SOLUTION FOR FEULGEN					
	Identification number:	-						
	Authorization no.:	-						
	Hazard pictograms:	-						



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Trading name:	SODIUM METABISULFITE, SOLUTION FOR FEULGEN					
Product code:	NH-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

	Signal word:	-
	5	
	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	<b>Endocrine Disrupting Propert</b>	ies:
	No known endocrine disrupting	properties
	<b>Results of PBT and vPvB asses</b> PBT or a vPvB.	ssment: According to the results of its assessment, this substance is not a

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)			
7681-57-4/ 231-673-0/ 016-063-00-2	-	0.2 – 0.5 %	sodium metabisulfite	Acute Tox. 4, H302 Eye Dam. 1; H318 EUH031			

	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:Following ingestion:Self-protection of the first aider:		Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.			
			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.			
			Treat symptomatically.			
4.2.	Most important symptoms and effects, both acute and delayed					
	Following inhalation:		ording to our findings, chemical, physical and toxicological properties of substance have not been entirely tested.			
	Following skin contact:		ording to our findings, chemical, physical and toxicological properties of substance have not been entirely tested.			



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Tradir	ng name:		SODIUM METABISULFITE, SOLUTION FOR FEULGEN			
Product code: NH-OT-X**			Date of compilation: 21 Dec 2022 Version: 4			
		g eye contact: g ingestion:	<ul> <li>According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.</li> <li>According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.</li> </ul>			
4.3.	Indicatior	Indication of any immediate medical attention and special treatment needed				
	-					

SECTIO	CTION 5. Firefighting measures						
5.1.	Extinguishing media						
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> 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.						

SECTIC	SECTION 6. Accidental release measures						
6.1.	Personal precautions, protecti	ve equipment and emergency procedures					
6.1.1.	For non-emergency personne	I					
	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 (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 harriers					



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Tradin	Trading name:			SODIUM METABISULFITE, SOLUTION FOR FEULGEN				
Haum	g name.		SODIOWI WETADISULFITE, SOLUTION FOR FEULGEN					
Produ	ct code:	NH-OT-X**	Date o	f compilation:	21 Dec 2022	Version: 4		
6.3.2.	Cleaning	up:	material (sand, in tightly closed ventilated stora persons authori	diatomaceous ea l impermeable co ge rooms until d zed by the Minis r disposal of the	ontainers. Store the isposal. Submit for stry of Environmenta	ace the waste material substance in well disposal to the legal		
6.3.3.	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 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:	SODIUM METABISULFITE, SOLUTION FOR FEULGEN						
Product code:	NH-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

8.1. Control para	ameters						
Substance		CASI			al exposure limit ort term values	Biological limit values	
				ppm	mg/m <sup>3</sup>		
-		-		-	-	No information available	
Substance							
EC No: - CAS No: -							
DNEL		·					
			-	Industrial			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-	-			-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
Critical physical para	meters: s	solubility, fla	ımmabili	ty, corrosivity:	-		
				Consumer			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
PNEC							
Environmental prote	ction tar	get		PNEC	PNEC		
Fresh water				No info	No information available		
Freshwater sediment	S			No info	No information available		
Marine water				No info	No information available		
Marine sediments				No info	rmation available		
Food chain				No info	rmation available		
Microorganisms in se	ewage tr	eatment		No info	rmation available		
Soil (agricultural)				No info	rmation available		
Air				No info	No information available		



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Trading name:	SODIUM METABISULFITE, SOLUTION FOR FEULGEN						
Product code:	NH-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

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:	revent	No information available			
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equi	pment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) visor.				
8.2.2.2.	Skin protection					
	Hand protection:		tive 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 f	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN ) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	ormation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:		See Section 6			
	Structural measures to pr exposure:	revent	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pr exposure:	event	See Section 6			

SECTIC	SECTION 9. Physical and chemical properties					
9.1.	Information on basic physical and chem	nical properties				
	Value Method					



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Trading name:	SODIUM METABISULFITE, SOLUTION FOR FEULGEN							
Product code:	NH-OT-X**	Date of compilation:	21 Dec 2022	Version: 4				

	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	no odor/no information avaialble	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
9.2.	Other information		

SECTIO	SECTION 10. Stability and reactivity					
10.1.	Reactivity:	See subsections 10.3 through 10.5.				
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.				
10.3.	Possibility of hazardous reactions:	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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Trading name:	SO	DIUM METAI	ABISULFITE, SOLUTION FOR FEULGEN				
Product code:	NH-OT-X**	Date of compilation: 21 Dec		21 Dec	2022 Version: 4		ersion: 4
		1	· · · · · · · · · · · · · · · · · · ·			I	
Route of exposure:	Method	Species	Effective d LD50/LC50 or A		Exposi time		Results
Oral exposure:	No information available	-	LD <sub>50</sub>		-		-
Dermal exposure:	No information available	-	LD <sub>50</sub>		-		-
Inhalation exposure:	No information available	-	LC <sub>50</sub>		-		-
Specific ta	rget organ toxicity – s	ingle exposure	(STOT SE):				
	Specific	effects	Target org	jan			Note
Oral exposure:	No information	available	No information available		-		
Dermal exposure:	No information	available	No information available		-		
Inhalation exposure	e: No information	available	No information available		-		
Respirator	y irritation:	No info	ormation available	е			
E							
Irritation a	nd corrosion						
	Exposure time	Species	Evaluatio	n	Meth od		Note
Skin irritation:	-	-	-		-	-	
Eye irritation:	-	-	-		-	-	
Sensitizatio	on						
Dermal exposure:	No information avai	lable					
Inhalation exposure:	No information avai	lable					
Symptoms	related to the physic	al, chemical and	d toxicological ch	aracteristi	cs		
Oral exposure:	No information a	vailable					
Dermal exposure:	No information a	vailable					
Inhalation exposure	e: No information a	vailable					
Eye exposure:	No information a	vailable					
Repeated	dose toxicity (subacut	e, subchronic, c	hronic)				



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Trading name:	SODIUM METABISULFITE, SOLUTION FOR FEULGEN						
Product code:	NH-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

lo information vailable lo information vailable	No information available No information available	No information available No information	No information available No	No information available	-
vailable	information	_	No		
lo information		available	information available	No information available	-
vailable	No information available	No information available	No information available	No information available	-
lo information vailable	No information available	No information available	No information available	No information available	-
lo information vailable	No information available	No information available	No information available	No information available	-
lo information vailable	No information available	No information available	No information available	No information available	-
lo information vailable	No information available	No information available	No information available	No information available	-
lo information vailable	No information available	No information available	No information available	No information available	-
lo information vailable	No information available	No information available	No information available	No information available	-
		xposure (STOT I			Nata
•					Note
	lo information vailable lo information vailable lo information vailable lo information vailable lo information vailable	Io information vailableinformation availableIo information vailableNo information availableIo information vailableNo information availableIo information vailableNo information availableIo information vailableNo information availableIo information vailableNo information availableIo information vailableNo information availableIo information vailableNo information availableIo information vailableNo information availableIo information vailableNo information availableIo information vailableNo information available	Io information vailableinformation availableinformation availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information available<	Io information vailableinformation availableinformation availableinformation availableIo information vailableNo information availableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information available <t< td=""><td>Information vailableinformation availableinformation availableinformation availableinformation availableIo information vailableNo information availableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo informat</td></t<>	Information vailableinformation availableinformation availableinformation availableinformation availableIo information vailableNo information availableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo information vailableNo information availableNo information availableNo information availableIo informat

	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:	SODIUM METABISULFITE, SOLUTION FOR FEULGEN				
Product code:	NH-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

Chronic	inhalation	No information	on available		No information available		-		
	CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)								
	Carcinogenicit	ty:	Based or	n availat	ole data, the classification cri	teria are	not met.		
	Mutagenicity i	in-vitro:	Based or	n availat	ole data, the classification cri	teria are	not met.		
	Genotoxicity:		Based or	n availat	ole data, the classification cri	teria are	not met.		
	Mutagenicity a	in-vivo:	Based or	n availat	ole data, the classification cri	teria are	not met.		
	Germ cell mut	agenicity:	Based or	n availat	ole data, the classification cri	teria are	not met.		
	Reproductive	toxicity:	Based or	n availat	ole data, the classification cri	teria are	not met.		
	Summary of e	valuation of the	CMR prope	erties:	-				
11.2	Information o	n other hazards:							
11.2.1.	Endocrine disr	rupting propertion	es:						
	contain com have endocrin according to Commission E 2017/2100 or	nce/mixture d ponents consident ne disrupting p REACH Article Delegated regula Commission F 5 at levels of	properties 57(f) or ation (EU) Regulation						
11.2.2.	Other informa	itions:							
	-								

SECTION 12. Ecologi	SECTION 12. Ecological information										
12.1. Toxicity											
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note					
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	-	-					
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	-	_					
Algae/aquatic plants	IC <sub>50</sub>	8 days	No information available	No information available	-	_					
Microorganisms	LC <sub>50</sub>	72 hours	-	-	-	-					



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Trading name:	SOD	DIUM METABISULFITE, SOI	LUTION FOR FEU	LGEN
Product code:	NH-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

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

			Kow):	iter (log	tanol/wa	tition coefficient: n-oo	Par
lote		Evaluation	Method	°C	рН	Concentration	Value
	-	No information available	No information available	-	-	No information available	



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Trading r	name:		SODIU	M META	BISULFIT	E, SO	LUTION	FOR FE	ULGEN	
Product o	code:	NH-OT-X**		Date o	f compilat	ion:	21 Dec	2022	Versio	n: 4
Valu	Je	Species		Metl	nod	Ev	aluation		Note	
No information available		No informati available			No information		No information No available		No information availa	
C	Chronic ecc	otoxicity	1	i				1		2
	Value	Dose		osure me	Species	N	lethod	Eva	luation	Note
Chronic toxicity on fish		ish LC <sub>50</sub>	1				ormation ilable	No information available		-
Chronic to crustacea	•	EC <sub>50</sub>	No inforr availa	mation i	No nformation available		ormation ilable	No info availab	ormation le	-
12.4. N	/lobility in	soil								
	•	redicted distribut	on in e	nvironmer	ntal compa	rtmen	ts:			
		tion available								
S	urface ten	1							[	
	Value	°C	Co	oncentratio	on	Ν	Aethod		٢	lote
ir	lo nformation vailable	No information available		informatic ilable	n No ir	Iforma	ation avail	able	-	
A	dsorption	/ desorption								
Transport		D coefficient nry's constant	lo	g Kow	Evapo	oratio	n rate	1	<b>Nethod</b>	Note
Soil-water	No availat	information ble	No in availa	formation ble	No infor available		n	No info availab	ormation le	-
Water-air	No availat	information ble	No in availa	formation ble	No infor available		1	No info availab	ormation le	-
Soil-air	No availat	information	No in availa	formation ble	No infor available		า	No info availab	ormation le	-



Page 13 of 16 Trading name: SODIUM METABISULFITE, SOLUTION FOR FEULGEN Product code: Date of compilation: Version: NH-OT-X\*\* 21 Dec 2022 4 12.5. Results of PBT and vPvB assessment 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 **SECTION 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: 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:** \_



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Trading name:		SODIU	M METABISULFITE, SO	LUTION FOR FEL	JLGEN
Product code:	NH-OT-X**		Date of compilation:	21 Dec 2022	Version: 4
SECTION 14. Tran	sport information				
Transport	ing/shipment by ro	ad (ADF	<u>})</u>		
UN number:		No	ot subject to transport regu	ılations.	
UN proper shippin	g name:	-			
Transport hazard o	:lass(es):	-			
Packing group:		-			
Environmentally ha	azardous:	-			
Special precaution	s for user:	-			
Transport	ing/shipment by ra	il (RID)			
UN number:		No	ot subject to transport regu	ilations.	
UN proper shippin	g name:	-			
Transport hazard o	:lass(es):	-			
Packing group:		-			
Environmentally ha	azardous:	-			
Special precaution	s for user:	-			
Inland wa	terway transport (A	DN)			
UN number:		No	ot subject to transport regu	ilations.	
UN proper shippin	g name:	-			
Transport hazard c	:lass(es):	-			
Packing group:		-			
Environmentally ha	azardous:	-			
Special precaution	s for user:	-			
Transport	ing/shipment by se	a (IMDO	i)		
UN number:		No	ot subject to transport regu	ilations.	
UN proper shippin	g name:	-			
Transport hazard o	lass(es):	-			
Packing group:		-			
Environmentally ha	azardous:	-			
Special precaution	s for user:	-			
Transport	ing/shipment by aii	r (ICAO-	TI/IATA-DGR)		
UN number:		Nc	ot subject to transport regu	ılations.	
UN proper shippin	g name:	-			
Transport hazard o	:lass(es):	-			
Packing group:		-			
Environmentally ha	azardous:	-			



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Trading name:	SO	DIUM METABISULFITE, SO	LUTION FOR FEU	JLGEN
Product code:	NH-OT-X**	Date of compilation:	21 Dec 2022	Version: 4
Special precaution	s for user:	-		
Further informatio	n: -			

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:	<ul> <li>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 793/91 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;</li> <li>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 or organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 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;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>				
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)					
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessme	ent				
	None					

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



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Tradir	ng name:	S	ODIUM METABISULFITE, SO	LUTION FOR FEL	JLGEN		
Produ	ict code:	NH-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	
16.2.	Abbreviat	ions and acronyms:	ADR: Accord relatif au transport in route (European Agreement Conc Goods by Road) IMDG: International Maritime Cod IATA: International Air Transport GHS: Globally Harmonised Syste EINECS: European Inventory of Exi CAS: Chemical Abstracts Service DNEL: Derived No-Effect Level (L LC50: Lethal concentration, 50 p LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulativ vPvB: very Persistent and very Bi	erning the Internatio Association em of Classification ar isting Commercial Ch e (division of the Ame JK REACH) vercent	nal Carriage of ods nd Labelling of emical Substan	Dangerous Chemicals ces	
16.3.	Key literat source of	ture references and data:	and _				
16.4.	Classificat 1272/200	•	sed to derive the classification fo	r mixture according	g to Regulatio	n (EC)	
Classif	ication	(	Classification procedure				
-		-	•				
16.5.	Relevant I	H statements (numbe	er and full text)				
	H: 302	1	Harmful if swallowed.				
	318	(	Causes serious eye damage.				
16.6.	Training a	dvice:					
16.7.	Further in	formation:	* "X" in the product code marks he product) Ne are not responsible for conse nstructions for use or improper u naterial safety data sheet.	quences in case of	failure to com	ply with	

# ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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Trading name:		SODIUM THIOSULFATE	E, 2% SOLUTION		
Product code:	NT2-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTI	ON 1. Identification of t	he substa	ince/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Trading name:	SODIUM	1 THIOSULFATE	, 2% SOLUTION		
	Chemical name:	-				
	Catalogue number:	NT2-OT	-X**			
1.2.	Relevant identified use	es of the su	ubstance or mix	xture and uses advised against		
	Uses:		For use with	special staining kits.		
	Uses advised against:		Only the ider	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.			
	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:		-			
1.4.	Emergency telephone	number				
	National Protection an	d Rescue	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ON 2. Hazards identification				
2.1.	Classification of the substance	or mixture			
2.1.1.	Classification according to Reg	gulation (EC) No 12	.72/2008 (CLP)		
	Hazard class and categ	ory code:	Hazard statements*:		
	Not identified as hazardous su	bstance.	-		
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:	SODIUM THIC	DSULFATE, 2% SOLUTION		
	Identification number: -				
	Authorization no.: -				
	Hazard pictograms:	-			



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Trading name:	S	ODIUM THIOSULFATE, 2% SOLUTION		
Product code:	NT2-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Signal word:	-			
	Hazard statements:	-			
	Precautionary statements:	-			
	Further information:	-			
2.3.	Other hazards				
	Endocrine Disrupting Proper	rties:			
	No known endocrine disruptin	g 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. 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)				
7772-98-7/ 231-867-5/ -	-	2 %	sodium thiosulphate	not classified				

SECTI	TION 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 a	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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Trading name:		SODIUM THIOSULFATE, 2% SOLUTION				
Produc	ct code:	NT2-OT-X**	Date of compilation: 21 Dec 2022 Version: 4			
	Following eye contact:		According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. According to our findings, chemical, physical and toxicological properties of			
	Following ingestion:		the substance have not been entirely tested.			
4.3.	Indication	Indication of any immediate medical attention and special treatment needed				
	-					

SECTI	CTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> 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 equipment and emergency procedures					
6.1.1.	For non-emergency personne	l				
	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 (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.				



Reference to other sections

6.4.

\_

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

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Trading name: Product code:		SODIUM THIOSULFATE, 2% SOLUTION					
		NT2-OT-X**	Date of compilation:	Date of compilation: 21 Dec 2022			
6.3.2.	Cleaning	up:	Where possible, the substance commaterial (sand, diatomaceous earlin tightly closed impermeable conventilated storage rooms until dispersons authorized by the Minis Protection. After disposal of the materials with water.	orth, vermiculite). Pl ontainers. Store the isposal. Submit for try of Environment.	ace the waste substance in disposal to th al and Nature	material well e legal	
6.3.3.	Other inf	ormation:	-				

SECTIO	TION 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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8.1. Control para	ameters						
Substance		CAS I			l exposure limit rt term values	Biological limit values	
				ppm	mg/m <sup>3</sup>		
-		-		-	-	No information available	
Substance							
EC No: -		CAS No:	-				
DNEL		•					
				Industrial			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
Critical physical para	meters: s	solubility, fla	immabilit	ty, corrosivity:	-		
				Consumer			
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
PNEC							
Environmental protect	ction tar	get		PNEC	PNEC		
Fresh water				No info	No information available		
Freshwater sediment	s			No info	mation available		
Marine water				No info	mation available		
Marine sediments				No info	mation available		
Food chain				No info	mation available		
Microorganisms in sewage treatment				No info	mation available		
Soil (agricultural)				No info	mation available		
Air				No info	No information available		



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

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
	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
9.2.	Other information		

SECTIO	SECTION 10. Stability and reactivity				
10.1.	Reactivity:	See subsections 10.3 through 10.5.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	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:					



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

	ar	nended by R	Regulation (EU)	No. 202	0/878	Page 8 of 16
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Product code:	NT2-OT-X**	Date o	of compilation:	21 Dec	2022	Version: 4
	44 44		1		1	1
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>		Exposur time	e Results
Oral exposure:	No information available	-	LD <sub>50</sub>		_	-
Dermal exposure:	No information available	-	LD <sub>50</sub>		-	-
Inhalation exposure:	No information available	-	LC <sub>50</sub>		-	-
Specific ta	irget organ toxicity – s	ingle exposure	e (STOT SE):		99	
	Specific	effects	Target or	gan		Note
Oral exposure: No information		available No information available		n	_	
Dermal exposure:	No information	No information available		No information - available		
Inhalation exposure	e: No information	available No information available		n	-	
Respirator	y irritation:	No inf	ormation availab	ام		
Kespirator	y initiation.					
Irritation a	and corrosion					
	Exposure time	Species	Evaluati	on	Meth od	Note
Skin irritation:	-	-	-			
Eye irritation:	-	-	-			
Sensitizati	on					
Dermal exposure:	No information avai	lable				
Inhalation exposure:	No information available					

Symptoms related	to the physical ch	homical and	tovicological	charactoristics
Symptoms related	lo the physical, ci	nenncai anu	loxicological	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)



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		Dose	Exposure time	Speo	cies	Method	Evaluation	No	te
Subacute oral	No inf availal	ormation ble	No information available	-	rmation able	No information available	No informatio available	n -	
Subacute dermal	No inf availal	ormation ble	No information available	-	rmation lable	No information available	No informatio available	n -	
Subacute inhalation	No inf availal	ormation ble	No information available		rmation able	No information available	No informatio available	n -	
Subchronic oral	No inf availal	ormation ble	No information available		rmation able	No information available	No informatio available	n -	
Subchronic dermal			No information available	-	rmation able	No information available	No informatio available	n -	
Subchronic inhalation	No information available		No information available	No information available		No information available	No informatio available	n -	
Chronic oral	No information available		No information available	No information available		No information available	No informatio available	n -	
Chronic dermal	No inf availal	ormation ble	No information available		rmation able	No information available	No informatio available	n -	
Chronic inhalation	No inf availal	ormation ble	No information available	-	rmation able	No information available	No informatio available	n -	
Ĩ						·			
Specific	target o	organ toxicit	y – repeated e	xposu	re (STOT I	RE):		1	
		•	ecific effects			Target organ		<u>۸</u>	lote
Subacute oral			ation available			mation available		-	
Subacute dermal			ation available			mation available	-	-	
Subacute inhalati	ion		ation available			No information available			
Subchronic oral	-l		ation available			mation available		-	
Subchronic derm			ation available			mation available mation available		-	
Chronic oral	ลแบก		ation available			mation available		-	
Chronic dermal			ation available			mation available			



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Chronic	inhalation	No informat	ion available	No information available	-			
	CMR effects	(carcinogenicity	. mutagenicity, r	reproductive toxicity)				
	Carcinogenic			vailable data, the classification criteria	a are not met.			
	Mutagenicity	2	Based on av	Based on available data, the classification criteria are not met.				
	Genotoxicity:		Based on av	vailable data, the classification criteria	a are not met.			
	Mutagenicity	in-vivo:	Based on av	vailable data, the classification criteria	a are not met.			
	Germ cell mu	itagenicity:	Based on av	vailable data, the classification criteria	a are not met.			
	Reproductive	e toxicity:	Based on av	vailable data, the classification criteria	a are not met.			
11.2	Information of	on other hazard	s:					
11.2.1.		srupting proper						
	contain cor have endocr according to Commission 2017/2100 c	nce/mixture nponents cons rine disrupting o REACH Artic Delegated regu or Commission 05 at levels c	properties le 57(f) or Ilation (EU) Regulation					
11.2.2.	Other inform	ations:						
	_							

SECTION 12. Ecological information								
12.1. Toxicity								
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	-	-		
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	-	-		
Algae/aquatic plants	IC <sub>50</sub>	8 days	No information available	No information available	-	-		
Microorganisms	LC <sub>50</sub>	72 hours	-	-	-	-		



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

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

	oaccumulative potentia					
Pa	rtition coefficient: n-oo	ctanol/wa	ater (log	Kow):		
Value	Concentration	рН	°C	Method	Evaluation	Note
	No information available	-	-	No information available	No information available	-



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v	alue		Species	М	ethod		Evaluation		Note	9
No info availabl	rmation e	No availa	informati able	on No inforn available	nation		No information available	No information availa		vailable
	Chronic e	ecotoxic	ity							
	Value Dose		Exposure time	Sp	ecies	Method	Eva	aluation	Note	
Chronic	toxicity o	n fish	LC <sub>50</sub>	No information available	No infor availa	mation able	No information available	No inf availat	ormation ble	-
	hronic toxicity on rustacea ( <i>Daphnia</i> )		EC <sub>50</sub>	No information available	No infor availa	mation able	No information available	No inf availat	ormation ble	-
		•			nental o	compan	ments:			
		I DIEUIC			nontal		monte			
	No inforr Surface t	mation a ension:		1						Note
	No inforr	mation a ension: e ion ir	available	Concentra No informa available	ition		Method	able	-	Note
	No inforr Surface to Value No informati	mation a ension: e ion ir	°C °C Io nformation	Concentra No informa	ition		Method	able		Note
	No inforr Surface to Value No informati	mation a ension: e ion ir a	°C Io nformation vailable	Concentra No informa	ition		Method	able		Note
Transpc	No inform Surface to Value No informati available Adsorptio	ension a ension: on / des A/D coo	°C Io nformation vailable	Concentra No informa	ition	No inf	Method			Note
Transpc Soil-war	No inform Surface to Value No informati available Adsorption ort	ion / des A/D coordinations	°C Io nformation vailable sorption efficient	Concentra No informa available	tion tion	No inf	Method Formation avail		- Method	
	No inform Surface to Value No informati available Adsorption ort H ter No avai air No	ion / des A/D coor Henry's	°C Io nformation vailable sorption efficient constant	Concentra No informa available log Kow	tion tion on Na on N	No inf Evapo o inform	Method Formation avail ration rate	No inf availat	- Method ormation ble ormation	



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		PBT and vPvB assessn							
	according	to REACH Article 57(f	t contain components considere ) or Commission Delegated reg						
	Regulatior	n (EU) 2018/605 at leve	els of 0.1% or higher.						
		disrupting properties							
	according		t contain components considere ) or Commission Delegated reg els of 0.1% or higher.						
12.7.	Other adv	erse effects							
		ation available							
SECTION	N 13. Disp	osal considerations							
13.1.	Waste tr	eatment methods							
13.1.1.	Product/	/Packaging disposal:							
	Submit f Protectio		al person authorized by the Mir	nistry of Environmer	ntal and Nature				
13.1.2.	Waste co	odes/waste designatic	ons according to Law:						
	No infor	mation available							
	1								
13.1.3.	Waste tr	eatment – relevant inf	formation:						
	No infor	mation available							
13.1.4.	Sewage	disposal – relevant inf	ormation:						
	Waste m	nust not be disposed o	of into the sewage system.						
13.1.5.	Other di	sposal recommendati	ons:						
	authoriz the pack	ed by the ministry in o	's remains into the sewage syst charge. Do not dispose of the part s authorized by the ministry in o	ackaging into the s	ewage system. Submit				
13.1.6.	Relevant	Community provisior	ns:						
	-								



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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	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 (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 (ICAO-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 precaution	s for user:	-			
Further information	n: -				

Further information:

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations		
	Authorization and/or restrictions of use		
	Authorizations:	-	
	Restrictions:	-	
	Other EU regulations:	<ul> <li>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;</li> <li>Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work;</li> <li>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;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>	
	Information according 1999/13/EC about limitation of emissions of volatile organic compo 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.	2. Chemical safety assessment		
	None		

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



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Produ	ct code:	NT2-OT-X**	Date of compilation: 21 Dec 2022 Version: 4		
16.2.	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 literat source of	ture references and			
16.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classification C			Classification procedure		
_			-		
16.5.	. Relevant H statements (number and full text)				
	H: -		-		
16.6.	Training a	dvice:	-		
16.7.	Further in	formation:	<ul> <li>** "X" in the product code marks different volumes (different packagings of the product)</li> <li>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.</li> </ul>		

## ANNEX:

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Exposure scenario resulting to Chemical safety assessment