

BIOGRAM HISTO KIT

The kit contains:

Gram Crystal Violet 1% solution Gram Decolorizer 2 solution Gram Lugol solution, stabilized Gram Safranin solution Picric acid in acetone, solution



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Trading name:	GRAM CRYSTAL VIOLET 1% SOLUTION		1% SOLUTION		
Product code:	GC1-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

1.1	Product identifier					
	Trading name:	GRAM CRYS	STAL VIOL	ET 1% SOLUTION		
	Chemical name:	-	-			
	Catalogue number:	GC1-OT-X*	4			
1.2	Relevant identified use	es of the subst	ance or m	nixture and uses advised against		
	Uses:		For use	n BioGram 4 Gram bacteria staining kit.		
	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:	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection ar	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIC	ON 2. Hazards identification			
2.1	Classification of the substar	nce or mixture		
2.1.1	Classification according to F	Regulation (EC) No	1272/2008 (CLP)	
	Hazard class and ca	tegory code:	Hazard statements*:	
	Flam. Liq. 3		H226	
	Aquatic Chronic 3		H412	
2.1.2.	Additional information			
	-			
*For fu	ll text of Hazard- and EU Haza	ard-statements: see	SECTION 16	
2.2	Label elements			
	Product identification:	GRAM CRYST	AL VIOLET 1% SOLUTION	
	Identification number:	-		
	Authorization number:	-		



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	Hazard pictograms:	GHS02
	Signal word:	Warning
	Hazard statements:	H226 Flammable liquid and vapor.H412 Harmful to aquatic life with long lasting effects.
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	
	No known endocrine disruptir Results of PBT and vPvB ass PBT or a vPvB.	ng properties essment: 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)		
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610- 43-0147	10 - 20 %	ethanol	Flam. Liq. 2; H225		
548-62-9/ 208-953-6/ 612-204-00-2	-	≤1 %	[4-[4,4'- bis(dimethylamino)benzhydry lidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride	Carc. 2; H351		
108-95-2/ 203-632-7/ 604-001-00-2	01-2119471329- 32-xxxx	< 1 %	phenol	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Corr. 1B; H314 Muta. 2; H341 STOT SE 2; H373		



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

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Water, foam, dry powder, CO ₂			
	Unsuitable extinguishing media:	No information available			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Mixture with combustible ingredients. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire. Vapours are heavier than air and may spread along floors.			



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5.3	Advice for firefighters
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.
5.4	Additional information
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.

SECTIC	SECTION 6. Accidental release measures					
6.1	Personal precautions, protectiv	ve equipment and emergency procedures				
6.1.1.	For non-emergency personnel	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in c (see Section 8).	case of inadequate ventilation use adequate airways protective equipment				
6.2	Environmental precautions:					
	Do not let product enter drain	s. Risk of explosion.				
6.3	Methods and material for cont	tainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures: Cover drains. Collect, bind, and pump off spills.					
6.3.2.	Cleaning up: 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 fo disposal to the legal persons authorized by the Ministry of Environmenta 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 inf	ormation.				

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



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	Measures to prevent fire:				Use in well ventilated away from open flan sources of ignition. T measures against sta smoke.	nes, hot surfaces Take precautionar	and y		
	Measures	to prevent aerosol and	d dust generatio	on: Secure proper ventilation.					
	Measures	to protect the enviror	iment:		Prevent spilling into the sewage system and waterways.				
	Other me	asures:			Protect against elect	rostatic charges.			
7.1.2.	Advice or	n general occupational	hygiene:						
	Do not ea	at, drink or smoke in th	e workspace. Th	noroughly wash	n hands after work an	d before eating.			
7.2	Condition	Conditions for safe storage, including any incompatibilities							
	Technical	measures and storage	conditions:	 Keep in tightly closed and upright set containers in well ventilated storage rooms at temperatures ran from 15 to 25 °C. Protect from heat and direct sum Manufacturer's original packaging. 			nging		
	Packaging	g materials:							
	Requirem	ents for storage room	s and vessels:	Keep away tightly close	from food and drink. ed.	Keep the contair	iers		
	Advices fo	or storage equipment:		The storage must be made of hard material; floors must be resistant to chemicals. There must be no that directly leads into sewage system. Secure proventilation. Do not place the unused material in the storage re and do not use empty containers for storing other chemicals. Do not store with incompatible materia (see Section 10).			drain		
	Further in	formation on storage	conditions:				r		
7.3	Specific e	nd use(s)							
	Recomme	endations:		-					
	Industrial	sector specific solution	ns:	-					

SECTION 8. Exposure controls/personal protection						
8.1	Control parameter	S				
	Substance	CAS No		exposure limit t term values	Biological limit values	
			ppm	mg/m ³		
Ethanc)	64-17-5	1000/-	1900/-	-	
Pheno	I	108-95-2	2/4	8/16	120 mg/g of creatinine (0.14 mol/mol of creatinine), end of shift, urinary excretion	



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Substance name:	-				
EC No:	- CAS No): -			
DNEL	· · ·	·	·		
		In	dustrial		
Route of exposure:	Acute effect local	Acute effect systemi	Chronic c effect local	Chronic effect systemic	
Oral	-	-	-	-	
Inhalation	1900 mg/ m ³ (ethanol) 16 mg/ m ³ (phenol)	-	-	380 mg/m ³ (ethanol) 8 mg/m ³ (phenol)	
Dermal	-	-	-	343 mg/kg (ethanol) 1.23 mg/kg (phenol)	
Critical physical parameters: solubility, flammability, corrosivity: -					
		Co	onsumer		
Route of exposure:	Acute effect local	Acute effect systemi	Chronic c effect local	Chronic effect systemic	
Oral	-	-	-	87 mg/kg (ethanol) 0.5 mg/kg (phenol)	
Inhalation	950 mg/ m ³ (ethanol)	-	-	114 mg/m ³ (ethanol) 0.452 mg/m ³ (phenol)	
Dermal	-	-	-	206 mg/kg (ethanol) 0.5 mg/kg (phenol)	
PNEC					
Environmental pro	tection target		PNEC		
Fresh water			0.96 mg/l (ethanol) 0.0077 mg/l (phenol)		
Freshwater sediments			3.6 mg/kg (ethanol) 0.09125 mg/kg (phenol)		
Marine water			0.79 mg/l (ethanol) 0.00077 mg/l (phenol)		
Marine sediments			2.9 mg/kg (ethanol) 0.00915 mg/kg (phenol)		
Food chain			380-720 mg/kg kg (ethan	ol)	
	n sewage treatment		580 mg/l (ethanol) 2.1 mg/l (phenol)		
Soil (agricultural)			0.63 mg/kg (ethanol) 0.136 mg/kg (phenol)		



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Air			no information available
8.2	Exposure controls		
8.2.1.	Appropriate engineering controls		
	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.
	Structural measures to prevent exposure:		In accordance with Section 7.
	Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.
8.2.2.	Personal protection equipment		
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lowe levels of concentration in air; protective gas mask that covers th entire face in case of higher levels of concentration in air.	
8.2.2.2.	Skin protection		
	F F Hand protection:	Regula Full cor	otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Intact: Glove material: butyl rubber Glove thickness: 0.70 mm Break through time: > 480 min contact: Gloves material: nitrile rubber Glove thickness: 0.40 mm Break through time: > 120 min
	f Other skin protection: e i	During everyday work use cotton clothing (EN 340) and footwear, such as rubber boots (EN 20345) or shoes tha entire foot. In case of spilling hazard, use clothing made impermeable material suitable for protection from liqui (Viton, PVC, himex) and footwear made from the same	
8.2.2.3.	Respiratory protection:	vith a t	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 GV
8.2.2.4.	Thermal hazards:	No info	ormation available
8.2.3.	Environmental exposure controls		



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

1	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	purple	No information available			
	Odour/odour threshold:	phenol like/no information available	No information available			
	Melting point / freezing point:	No information available	No information available			
	Boiling point or initial boiling point and boiling range:	No information available	No information available			
	Flammability:	No information available	No information available			
	Lower and upper explosion limit:	No information available	No information available			
	Flash point:	49°C	No information available			
	Auto-ignition temperature:	No information available	No information available			
	Decomposition temperature:	No information available	No information available			
	pH:	No information available	No information available			
	Kinematic viscosity:	No information available	No information available			
	Solubility:	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					



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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 information available
10.4	Conditions to avoid:	Heating.
10.5	Incompatible materials:	No further relevant information available.
10.6	Hazardous decomposition products:	No dangerous decompostion products known.

11.1	Informatior	n on hazaro	l classes as	defined i	n Regu	lation (EC	C) No 1272/200	8	
	Acute toxic	ity:							
Route of exposure:		Method	Spe	cies l	Dos LD ₅₀ /LC ATE _m	₅₀ or l	or Exposure time		Results
Oral:		-	ra	t	LD ₅₀)	-	10.470 r	ng/kg (ethanol)
Derma	l:	-	ra	t	LD ₅₀		-	660 mg,	/kg (phenol)
Inhalation: -		-	ra	it	LC ₅₀		4 h	124.7 m	g/l (ethanol)
	:								
	Specific tar	get organ i	toxicity – si	ngle expo	osure (S	TOT SE):			
			Specific et	ffects			Target organ		Note
Oral:	Oral: No information			lable			rmation available		-
Derma	l:	No inform	nation avai	lable		No info	rmation availab	le	-
Inhalat	ion:	No inform	nation avai	lable		No info	rmation availab	ole	-
	Aspiration I	nazard:		N	o inforr	nation av	vailable.		
	Irritation ar	nd corrosio	n						
		Expo	sure time	Specie	es Ev	aluation	Method		Note
Skin corrosi	ion/irritation:	-		in vitro study	-		OECD 431	causes	burns (phenol)
Seriou: damag	s eye je/irritation	-		rabbit	-		OECD 405	corros	ive (phenol)
	Sensitizatio								
Skin se	ensitization:	I	No informa	ition availa	able.				
Deceir	atory sensitiza	tion I	No informa	tion avails	ahla				



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Trading name:					
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Oral exposure:	No inform	nation available.				
Dermal exposure	: No inform	nation available.				
Inhalation expos	ure: No inform	nation available.				
Eye exposure:	No inform	nation available.				
Repeate	d dose toxicity (subacute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No informatio available	on No information available	No information available	No information available	No information available	-
Subacute dermal	No informatic available	n No information available	No information available	No information available	No information available	-
Subacute inhalation	No informatic available	n No information available	No information available	No information available	No information available	-
Subchronic oral	No informatic available	n No information available	No information available	No information available	No information available	-
Subchronic dermal	No informatio available	n No information available	No information available	No information available	No information available	-
Subchronic inhalation	No informatic available	No information available	No information available	No information available	No information available	-
Chronic oral	No informatic available	n No information available	No information available	No information available	No information available	-
Chronic dermal	No informatic available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No informatic available	n No information available	No information available	No information available	No information available	-
Specific	target organ tox	icity – repeated e	exposure (STOT	RE):	8	
		Specific effect	cts	Target o	organ	Note



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Trading na	ame:		GRAM	CRYSTAL VIO	LET 1	% SOLUTION		
Product co	ode:	GC1-OT-X**	Date	Date of compilation: 21 Dec 2022			Version:	5
Subacute d		No information				rmation available	-	
Subacute in		No information a	available	N	lo info	rmation available	-	
Subchronic	Subchronic oral No information available			N	lo info	rmation available	-	
Subchronic	Subchronic dermal No information available			N	lo info	rmation available	-	
Subchronic	inhalatio	on No information	available	N	lo info	rmation available	-	
Chronic ora	l	No information	available	N	lo info	rmation available	-	
Chronic der	rmal	No information	available	N	lo info	rmation available	-	
Chronic inh	Chronic inhalation No information availa			N	lo info	rmation available	-	
Ca Mi Ge Re Su pri	CMR effects (carcinogenicity; mutagenicityCarcinogenicity:Mutagenicity in vitro:Genotoxicity:Mutagenicity in vivo:Germ cell mutagenicity:Reproductive toxicity:Summary of evaluation of the properties:			ised on available sed on available sed on available sed on available sed on available sed on available	e data, e data, e data, e data, e data, e data,	the classification of the classification of the classification of the classification of the classification of the classification of data, the classific	criteria are not criteria are not criteria are not criteria are not criteria are not	met. met. met. met. met.
		n on other hazards:						
		disrupting properties:						
		endocrine disrupting human health.	properties					
11.2.2. Ot	her infor	mation:						
-								

SECTION 12. Ed	SECTION 12. Ecological information							
12.1 Toxicity								
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	Leuciscus idus (Golden orfe; ethanol) Oncorhynchus mykiss (rainbow trout; phenol)	-	-	8.140 mg/l (ethanol) 5.0 mg/l (phenol)		



Trading name:				GRAM CRYST	AL V	/IOLET	1% SOLUTI	ON		
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Crustacea:	EC ₅₀	48 hours		nnia magna er flea)	-		-		mg/l (ethanol) g/l (phenol)	
Algae/aquatic plants	IC ₅₀	7 days	gree	green algae			-	5.000 mg/l (ethanol) 6.500-13.000 mg/l (ethylene glycol) 61.1 mg/l (phenol)		
Other organisms	-	-	-			_	-	-		
Chronic (long- term) toxicity	Dose	Exposure time		Species	М	ethod	Evaluation		Note	
Fish	LC ₅₀	96 hours		o information ailable			-	-		
Crustacea:	EC ₅₀	48 hours		information ailable			-	-		
Algae/aquatic plants	IC ₅₀	72 hours		o information vailable			-	-		
Other organisms	-	-	-		-		-	-		
12.2 Persiste		do arrodo bility								
	degrada	degradability								
ADIOLIC	-	adation half-liv	105	Method			valuation		Note	
Marine water		rmation availa		No information available	n	No inf	ormation		Note	
Fresh water	No info	rmation availa	ble	No information available	n	available No information available		-		
Air	No info	rmation availa	ble	No information available	n		ormation	-		
Soil	No info	rmation availa	ble	No information available		No inf availat	ormation ble	-		
	radation							1		
% Degradatio		Time (days)		Method			aluation		Note	
94% (ethanol)	No av	o inform ailable	ation			No information available		readily biodegradable		!
85% (phenol)	14	days		OECD 301C		No information available		readi	y biodegradable	;

12.3 Bioaccumulative potential



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Trading	g name:			GRAM CRYSTAL VIOLET 1% SOLUTION									
Produc	t code:	GC1	-OT-X**		Date	e of co	mpilati	on:	21 De	ec 202	2 '	Version:	5
	1		artition coef										
Val	ue	Concent	ration p	H	°C	M	ethod		Evalu	ation		Note	
-		-	-		-	-		-				accumulatior expected	n is
	Bioconc	entration	factor (BCF)									
V	alue		Species		I	Method	k		Evaluati	on		Note	
No info availabl		No availa	inform ble	nation	No info availab		on	No iı avail	nformati able	on	-		
	Chronic	ecotoxic	ity										
	Value		Dose		oosure ime	Sp	ecies	Me	ethod	Eva	aluation	Note	9
Chronic	Chronic toxicity on fish LC ₅₀		LC ₅₀	No infor avail	mation able	No infor availa	mation able	No infor avail	mation able	No information available		-	
	toxicity ea (<i>Daphi</i>		EC ₅₀	information ir		No infor availa	mation able	No infor avail	mation able	No informatio available		-	
12.4	Mobility	/ in soil											
	Known	or predict	ed distribut	ion in e	environm	nental o	compart	ments	:				
	No info	rmation a	vailable										
	Surface	tension:											
	Valu	ie	°C	C	oncentra	ation		Met	hod			Note	
	No information availableNo information availableNo information availableNo information available-		-										
	Adsorpt	tion / des	orption										
Transpc		A/D coe Henry's d	efficient	lo	og Kow	E١	vaporati	on rate	e	Methc	od	Note	
Soil-wat	ter ava		nformation	No ii availa	nformati able		o inform ⁄ailable	nation	No ii avail	nforma able	ation	-	



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			T	T				
Water-a	air No avail	information lable	No information available	No information available	No information available	-		
Soil-air	No avail	information lable	No information available	No information available	No information available	-		
12.5		f PBT and vPvB asse						
	Based on	available data, the J	product does not o	contain any PBT o	r vPvB substances.			
17.6	Endorring	discusting property	inc					
12.6.		e disrupting propert available data, does		cripo dicruptors				
	Daseu On	available data, does		criffe disruptors.				
12.7.	Other adv	verse effects						
	No furthe	er relevant informati	on available.					
1	*							
SECTIO	N 13. Disp	osal consideration	IS					
13.1	Waste t	reatment methods						
13.1.1.	Product	t/Packaging disposa	l:					
	Submit Protecti	-	egal person autho	rized by the Minis	try of Environmental	and Nature		
	Protecti	011.						
13.1.2.	Waste o	odes/waste designa	ations according to	o Law:				
		5	5		ces or is contaminate	ed with hazardo	ous	
	substan	ices						
13.1.3.		reatment – relevant	information:					
	INO INTO	rmation available						
13.1.4.	Sewage	e disposal – relevant	information.					
10.1.4.		nust not be dispose		ge system.				
				<u></u>				
13.1.5.	Other d	lisposal recommend	ations:					
	authoriz	•	in charge. Do not	dispose of the pac	n. Submit the remain kaging into the sewa			
13.1.6.	· · ·	to the collect	-	n the ministry in Cr				
15.1.0.		al must be made acc		regulations				
	propose	a must be made acc	orang to onicial i	egulations.				



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1

Trading name:	GRAM CRYSTAL VIOLET 1% SOLUTION						
Product code:	GC1-OT-X**	Date of compilation:	21 Dec 2022	Version:	5		

SECTION 14 TRANSPORT INFORMATIC Transporting/shipment by road (
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	
Environmentally hazardous:	
Special precautions for user:	-
Transporting/shipment by rail (R	1
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN))
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3



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Trading name:	GRAM CRYSTAL VIOLET 1% SOLUTION						
Product code:	GC1-OT-X**	Date of compilation:	21 Dec 2022	Version:	5		

Packing group:	Packing group: III				
Environmentally hazard	vironmentally hazardous: -				
Special precautions for	recautions for user: -				
Further information.	•	Provision 144 – An aqueous solution containing 24% or less alcohol by subject to classification.			
Further information:	•	A: Special Provision A58 - An aqueous solution containing 24% or less alcohol by me is not subject to classification.			

SECTIO 15.1	ON 15. Regulatory informa				
15.1	EU regulations	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	Authorization and/or rest	victions of use			
	-				
	Authorizations:				
	Restrictions:	-			
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); 			
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2	Chemical safety assessme	nt			
	None				



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Trading name:		GRAM CRYSTAL VIOLET	1% SOLUTION		
Product code:	GC1-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

SECTIO	ON 16	. Other informatio	n	
16.1	Indi	cation of changes:		-
16.2	Abbreviations and acronyms:		nyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
16.3.		literature references rce of data:	s and	-
16.4.		sification and proce 2/2008 (CLP)	dure us	ed to derive the classification for mixture according to Regulation (EC)
Classifi	catior)	C	lassification procedure
16.5.	Rele	evant H statements (numbei	r and full text)
		H225	High	ly flammable liquid and vapor.
		H226	-	mable liquid and vapor.
		H301		if swallowed.
		H302	Harm	nful if swallowed.
		H311	Тохіс	in contact with skin.
		H314		es severe skin burns and eye damage.
	H:	H318		es serious eye damage.
		H331		if inhaled.
		H341		ected of causing genetic defects.
		H351		ected of causing cancer.
		H373		cause damage to organs through prolonged or repeated exposure.
		H400		toxic to aquatic life.
		H410		toxic to aquatic life with long lasting effects.
		H412	-	oful to aquatic life with long lasting effects.
16.6.	Trai	ning advice:	-	



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Trading name: GRAM CRYSTAL VIOLE			1% SOLUTION			
Product code: GC1-OT-X**		GC1-OT-X**	Date of compilation:	21 Dec 2022	Version:	5
16.7.	Further in	formation:	* "X" in the product code marks differ product) Ve are not responsible for consequen nstructions for use or improper use of afety data sheet.	ices in case of failur	e to comply with	1

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:		GRAM DECOLORIZ	ZER SOLUTION 2		
Product code:	GD2-OT-X**	Revision date:	23 Dec 2022	Version:	5

1.1	Product identifier	the substance	/ IIIXture	and of the company/undertaking		
	Trading name:	GRAM DEC	OLORIZER	SOLUTION 2		
	Chemical name:					
	Catalogue number:	GD2-OT-X*	*			
1.2	Relevant identified use	es of the subst	ance or n	nixture and uses advised against		
	Uses:		For use	in Gram bacterial staining.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advised ag		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				
Classification of the substance or mixture				
Classification according to Regulation (EC) No 1272/2008 (CLP)				
Hazard class and category	code: Hazard statements*:			
Flam. Liq. 2	H225			
Eye Irrit. 2	H319			
STOT SE 3	H336			
	EUH066			
Additional information				
-				
ull text of Hazard- and EU Hazard-statements: see SECTION 16				
Label elements				
Product identification: G	RAM DECOLORIZER SOLUTION 2			
	Classification of the substance or r Classification according to Regulat Hazard class and category Flam. Liq. 2 Eye Irrit. 2 STOT SE 3 Additional information - text of Hazard- and EU Hazard-stat Label elements			



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Trading name:		RIZER SOLUTION 2			
Product code:	GD2-OT-X**	Revision date:	23 Dec 2022	Version:	5

	Identification number:	-
	Authorization number:	-
	Hazard pictograms:	GHS02 GHS07
	Signal word:	Danger
	Hazard statements:	 H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. EUH066 Repeated exposure may cause skin dryness or cracking.
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	The product has no other know	n specific hazards for human or environment.
	Results of PBT and vPvB assess PBT or vPvB substances.	ment: Based on available data, the product does not contain any
	Endocrine disrupting property:	Based on available data, does not contain endocrine disruptors.

SECTION 3. Co	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	40 – 60 %	ethanol	Flam. Liq. 2; H225		
67-64-1/ 200-662-2/ 606-001-00-8	-	50 - 70 %	acetone	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336		

SECTION 4. First aid measures



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Trading name:	GRAM DECOLORIZER SOLUTION 2				
Product code:	GD2-OT-X**	Revision date:	23 Dec 2022	Version:	5

4.1	Description of first aid measures			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.		
	Following inhalation:	Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificial respiration. In case of complaints call a physician.		
	Following skin contact:	Remove the contaminated clothes. Wash the skin surface under plenty of running water. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for at least 10 minutes). If the symptoms remain, immediately call in ophthalmologist.		
	Following ingestion:	Place the victim in a comfortable position. Rinse the mouth with clean water. If the victim is conscious induce vomiting.Do not give the victim anything orally, and do not induce vomiting if the victim is unconscious or suffers from convulsions.		
	Self-protection of the first aider:	-		
4.2	Most important symptoms and effects, both acute and delayed			
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.		
	Following skin contact:	Defatting, dry skin.		
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.		
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.		
4.3	Indication of any immediate medi	cal attention and special treatment needed		
	-			

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Dry powder, alcohol-resistant foam, water spray, carbon-dioxide.			
	Unsuitable extinguishing media:	No information available.			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products: No information available.				
5.3	Advice for firefighters				
	Wear full protective clothing and self-contained breathing apparatus. Cool the fire affected containers with water spray. Use water spray to dissipate alcohol vapors.				
5.4	Additional information				



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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:		GRAM DECOLORIZ	ER SOLUTION 2		
Product code:	GD2-OT-X**	Revision date: 23 Dec 2022		Version:	5
				: :	:

6.1	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	ventilation. Vapors may accum and spark sources, turn off ma	Avoid contact with skin, eyes and clothing and inhaling gases, vapors and aerosols. Ensure adequate ventilation. Vapors may accumulate at floor level in low and confined spaces. Remove all heat, ignition and spark sources, turn off machines. Ignition spark arrestor must not be operated in the danger area. Use spark-proof tools. Be aware of the risk of slipping.				
6.2	Environmental precautions:					
	Dispose of the spillage and the resulting waste according to the applicable environmental regulations. D not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.					
6.3	Methods and material for cont	ainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.				
6.3.2.	Cleaning up: Cleaning up: Clean					
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					
	See Section 7 for information of	on safe handling.				
	See Section 8 for information of	See Section 8 for information on personal protection equipment.				
	See Section 13 for disposal inf	See Section 13 for disposal information.				

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



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Tradir	ng name:		GRAM [DECOLOR	IZER SOLUTION 2				
Produ	uct code:	GD2-OT-X**	Revision	date:	23 Dec 2022	Version:	5		
	Measures to prevent fire:				Use in well ventilated storage rooms. Kee away from heat, hot surfaces, sparks, ope flames and other ignition sources. N smoking. Use non-sparkling tools an equipment.				
	Measures	to prevent aerosol and	d dust generatio	n:	Ensure adequate ve	entilation.			
	Measures	to protect the environ	ment:		Prevent spilling into and waterways.	o the sewage syste	m		
	Other measures:				Protect against elec	ctrostatic charges.			
7.1.2.	2. Advice on general occupational hygiene:								
	Do not eat, drink or smoke in the workspace. Thoroughly wash hand					nd before eating.			
7.2	.2 Conditions for safe storage, including any incon				npatibilities				
	Technical measures and storage conditions:		away fro unopen	a well-ventilated place, om sources of heat and ed and hermetically s xidizing agents, food ption.	d ignition, in its or sealed packaging,	riginal, away			
	Packaging	g 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 mube resistant to chemicals. There must be no drain the directly leads into sewage system. Secure proposed ventilation.			n that			
	Further in	formation on storage o	conditions:	and do	place the unused mate not use empty conta als. Do not store with inc 10).	ainers for storing	other		
7.3	Specific e	nd use(s)							
	Recomme	endations:		-					
	Industrial	sector specific solution	ıs:	-					

SECTION 8. Exposure controls/personal protection				
8.1 Control parameters				
CAS No		•	Biological limit values	
	ppm	mg/m ³		
64-17-5	1000/-	1900/-	-	
67-64-1	500/-	1210/-		
	CAS No 64-17-5	CAS No 64-17-5 CAS No 0ccupational values/short ppm 1000/-	CAS No CAS	



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Trading name:			GRAM DECOLO	RIZER SOLUTION 2		
Product code: GD2-OT-X**		Revision date:	23 Dec 2022	Version:	5	
Substance name:	-					
EC No:	-	CAS No:	-			
DNEI						

DNEL					
Industrial					
Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic	
Oral	-	-	-	-	
Inhalation	1900 mg/m ³ (ethanol)	-	-	380 mg/m ³ (ethanol) 1210 mg/m ³ (acetone)	
Dermal	-	-	-	343 mg/kg (ethanol) 186 mg/kg (acetone)	
Critical physical parameters: solubility, flammability, corrosivity: -					
Consumer					

	Consumer					
Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic		
Oral	-	-	-	87 mg/kg bw/day (ethanol)		
Inhalation	950 mg/m ³ (ethanol)	-	-	114 mg/m ³ (ethanol) 200 mg/m ³ (acetone)		
Dermal	-	-	-	206 mg/kg (ethanol) 62 mg/kg (acetone)		
PNEC						

Environmental protection target	PNEC		
Fresh water	0.96 mg/l (ethanol)		
Fresh water	10.6 mg/l (acetone)		
Farahaan ta dina anta	3.6 mg/kg (ethanol)		
Freshwater sediments	30.4 mg/kg (acetone)		
Marina watar	0.79 mg/l (ethanol)		
Marine water	1.06 mg/kg (acetone)		
Maying and income	2.9 mg/kg (ethanol)		
Marine sediments	3.04 mg/kg (acetone)		
Food chain	380-720 mg/kg (ethanol)		
Misso and a language the start and	580 mg/l (ethanol)		
Microorganisms in sewage treatment	100 mg/l (acetone)		
	0.63 mg/kg (ethanol)		
Soil (agricultural)	33.3 mg/kg (acetone)		
Air	no information available		



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8.2	Exposure controls			
8.2.1.	Appropriate engineering controls			
	Substance/mixture related measures to prevent exposure during identified uses:		In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.	
	Structural measures to prevent exposure:		In accordance with Section 7.	
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent exposure:		In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Use according to general application methods and with adequate ventilation. Use non-sparkling ventilation system.	
			Provide appropriate personal protective equipment, safety shower and eye-wash station.	
8.2.2.	Personal protection equipment			
8.2.2.1.	Eye and face protection:	Use appropriate, chemical-proof protective glasses/face shield (EN ISO 16321-1:2022, EN 166).		
8.2.2.2.	Skin protection			
	Hand protection:	Use ap	propriate, chemical-resistant protective gloves (EN 374).	
	Other skin protection:	Use ap	propriate protective clothing.	
8.2.2.3.	Respiratory protection:	In case of normal usage and ventilation, it is not necessary. If concentration of ethyl alcohol exceeds occupational exposure limits in the air, use a self-contained breathing apparatus. For short contact and if the oxygen content of the air is greater than 18 %, use a protective gas mask with filter A (EN 14837/A1).		
8.2.2.4.	Thermal hazards:	No the	rmal hazards known.	
8.2.3.	Environmental exposure controls	2		
	Substance/mixture related measures to prevent exposure:	See Se	ction 6	
	Structural measures to prevent exposure:	Use m	odern equipment.	
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.	
	Technical measures to prevent exposure:	See Se	ction 6	



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Trading name:	GRAM DECOLORIZER SOLUTION 2					
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Information on basic physical and	chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	acetone like/no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lower and upper explosion limit:	No information available	No information available
Flash point:	20 °C	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	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

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



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Trading name:		GRAM DECOLOR	RIZER SOLUTION 2		
Product code:	GD2-OT-X**	Revision date:	23 Dec 2022	Version:	5

SECTION 11. T	oxicological infor	mation					
11.1 Inform	nation on hazard cla	asses as defined	in Regulation (EC) No 1272/2	2008		
Acute	toxicity:						
Route of exposure:	Method	Species	Dose LD ₅₀ ATE		Exposure ti	me	Results
Oral:	-	rat	LD	50	-		7.060 mg/kg (ethanol) 5.800 mg/kg (acetone)
Dermal:	-	rabbit	LDs	50	-		>20.000 mg/l (ethanol) 20.000 mg/kg (acetone)
Inhalation:	-	rat	LCs	50	4 h		>8.000 mg/l (ethanol) 76 mg/l (acetone)
Specif	ic target organ toxi	city – single exp	osure (STOT SE):		*	
	Sp	ecific effects		Target orga	an		Note
Oral:	No informati	on available	No inf	No information available		-	
Dermal:	No informati	on available	No information available		-		
Inhalation:	Narcotic effe	cts	No information available May cause drowsing or dizziness.				
Aspira	tion hazard:	1	No information	available.			
Irritati	on and corrosion					I	
	Expos	ure time	Species	Evaluation	Method		Note
Skin corrosion/irrita	tion:	-	-	-	-	-	
Serious eye damage/irritati	on -	-		-	-	-	
Sensit	ization						
Skin sensitizatio	on: No	nformation avai	ilable.				
Respiratory sen		nformation avai					



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Cumeta	me related to the al	aveical chancia	al and toyical	nical characterist	icc	
Oral exposure:	unconscious	of great q ness and alcoh	uantities may ol poisoning. In	cause dizzin	ics less, drunkenness ing great quantities y lead to liver cirrh	, nausea and
Dermal exposure	After prolon cracking of s	J .	ted exposure s	symptoms may	include: defatting,	dryness and
Inhalation expos	ure: Inhalation of membranes.	great quantitie	es may cause diz	zziness, euphoria	and mild irritation	of the mucous
Eye exposure:	May cause ir	ritation and re	dness.			
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 name:	GRAM DECOLORIZER SOLUTION 2					
Product code:	GD2-OT-X**	Revision date:	23 Dec 2022	Version:	5	

		Specific effect	cts	Target organ	Note		
Subacu	te oral	No information available		No information available	-		
Subacu	te dermal	No information available		No information available	-		
Subacu	te inhalation	No information available		No information available	-		
Subchro	onic oral	No information available		No information available	-		
Subchro	onic dermal	No information available		No information available	-		
Subchro	onic inhalation	No information available		No information available	-		
Chronic	coral	No information available		No information available	-		
Chronic	c dermal	No information available		No information available	-		
Chronic	inhalation	No information available		No information available	-		
		arcinogenicity; mutagenicit		-			
	CMP offocts (c	arcinogonicity: mutagonicit	v: roproductivo	toxicity)			
	Carcinogenicit		Based on available data, the classification criteria are not met.				
	Mutagenicity i	n vitro:	Based on available data, the classification criteria are not met.				
	Genotoxicity:		Based on available data, the classification criteria are not met.				
	Mutagenicity i		Based on available data, the classification criteria are not met.				
	Germ cell muta		Based on available data, the classification criteria are not met.				
	Reproductive t	oxicity:	Based on available data, the classification criteria are not met.				
	Summary of properties:	evaluation of the CN	MR Based on met.	available data, the classifica	ation criteria are no		
11.2	Information or	n other hazards:					
11.2.1.	Endocrine disr	upting properties:					
	components c disrupting pro Article 57(f) regulation (EU	e/mixture does not conta onsidered to have endocri operties according to REA or Commission Delegat 1) 2017/2100 or Commissi 1) 2018/605 at levels of 0.1%	ine CH ted ion				



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Trading name:		GRAM DECOLORIZ	ZER SOLUTION 2		
Product code:	GD2-OT-X**	Revision date:	23 Dec 2022	Version:	5

12.1 Toxicity	у							
Acute (short-ter toxicity	rm)	Dose	Exposur time	e Species	Method	Εv	aluation	Note
Fish		LC ₅₀	96 hours	golden orf	No information available	(e 6.2	mg/l /48 h ethanol) 210 mg/l cetone)	-
Crustacea:		EC ₅₀	48 hours	daphnia magna	No information available	e) 8.8	800 mg/l ethanol) 800 mg/l cetone)	-
Algae/aquatic p	olants	IC ₅₀	4 days	algae	No information available	(e 53) mg/l / 7d thanol) 30 mg/l cetone)	-
Other organism	IS	-	-	-	-	-		-
Chronic (long-to toxicity	erm)	Dose	Exposur time	e Species	Method	Ev	aluation	Note
Fish		LC ₅₀	96 hours	No information available	No information available	No in [.] availa	formation ble	-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No in [.] availa	formation ble	-
Algae/aquatic p	ants	IC ₅₀	72 hours	No information available	No information available	No in [.] availa	formation ble	-
Other organism	IS	-	-	-	-	-		-
		nd degradab	ility					
Abiotic		idation	16 1:		F I		•	1-+-
	De	gradation ha	ait-lives	Method	Evaluatio		<u>۲</u>	lote
Marine water	No ir	nformation a	vailable	No information available	No informatio available	[]	-	
Fresh water	No ir	nformation a	vailable	No information available	No informatio available	n	-	
Air	No ir	nformation a	vailable	No information available	No informatio available	n	-	
Soil	No ir	nformation a	vailable	No information available	No informatio available	n	-	



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Trading name:	GRAM DECOLORIZER SOLUTION 2						
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	Biodegr	adation								
% D	egradatio	n	Time (da	ys)	Method		Evaluation			Note
No information available			No information available		No information available		No information available		No information available	
12.3			potential							
			artition co					:		
	alue	Concen		рН	°C	Method		luation		Note
-		-	-		-	-	-		-	
	Bioconc	ontration	n factor (BC	`Е)						
,	Value		Species	-		Method	Evalua	ation		Note
	Value	No	•	rmation			Note			
-		_	ilable		available		available		-	
	1									
	Chronic	ecotoxic	ity			÷	-	Ŷ		÷
	Value		Dose		oosure ime	Species	Method	Eval	uation	Note
Chronic toxicity on fish LC ₅₀			LC ₅₀	No infor avail	mation able	No information available	No information available	No inforr availa	nation ble	-
Chronic toxicity on crustacea (Danhnia) EC ₅₀ i		No infor avail	mation able	No information available	No information available	No inforr availa	nation ble	-		
			1			1	1			1
12.4	Mobility	/ in soil								
	Known	or predic	ted distrib	ution in e	environn	nental compar	tments:			
	No info	rmation a	available							
	Surface	tension:								
Value		°C	6	oncentra		Method			Note	



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

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Trading name:					GRAM	DEC	COLOR	IZER SC	DUTION	2	<u> </u>	
Produc	t code:	Ģ	GD2-OT-X** Revisi		Revisior	n date: 23 Dec 2022			Version:	5		
	No No information information available available		No ir avail	nformatior able	ו	No inf availa	ormatior ble	1	-			
	Adsorpt	ion /	desorption									
Transpo	ort		/D coefficient enry's constant	log Kow		Evaporation rate		Method		Note		
Soil-wat	ter	No avai	information ilable	No information available		No information available		No information available		-		
Water-a	air	No avai	information ilable	No information available			No information available		No information available		-	
Soil-air		No avai	information ilable	No information available					No inform available	nation	-	
12.5	This sub	stan	BT and vPvB asses ce/mixture contain or very persistent	ins no c	omponent y bioaccun	s co nula	onsidere ative (vF	ed to be e PvB) at le	either persi vels of 0.1%	stent, bi 6 or high	oaccumulative a ner.	and
12.6.	Endocri	ne di	srupting properti	es								
	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 a	duars	se effects									
12.7.			e product or its r	esidues	reach sew	er s	vstem, v	waterway	s and soil.			
							,,	/				
SECTIO	N 13. Dis	sposa	al considerations	s								
13.1	Waste	trea	tment methods									
13.1.1.	Subm	oduct/Packaging disposal: Ibmit for disposal to the legal person authorized by the Ministry of Environmental and Nature otection.										
	1											
13.1.2.	Waste	code	es/waste designa	tions ac	cording to	Lav	N:					
	Packa	ging	that contains res	idual ha	zardous su	ubst	ances o	or is cont	aminated w	ith haza	ardous substanc	es



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Trading name:		GRAM DECOLORIZ	ER SOLUTION 2		
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13.1.3.	Waste treatment – releva	int information:				
	No information available					
13.1.4.	Sewage disposal – releva	nt information:				
	Waste must not be dispo	sed of into the sewage system.				
13.1.5.	Other disposal recomme					
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Unused product residues may be				
13.1.6.	Relevant Community pro	visions:				
	Disposal must be made a	according to official regulations.				
SECTIO	N 14 TRANSPORT INFORM	1ATION				
	Transporting/shipment by	road (ADR)				
UN num	ber:	1170				
UN prop	per shipping name:	Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing	group:	П				
Environr	nentally hazardous:	-				
Special _I	precautions for user:	-				
	Transporting/shipment by	rail (RID)				
UN num	ber:	1170				
UN prop	per shipping name:	Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing	group:	II				
Environr	nentally hazardous:	-				
Special _I	precautions for user:	-				
	Inland waterway transport	(ADN)				
UN number:		1170				
UN proper shipping name:		Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing group:		II				
Environr	nentally hazardous:	-				
Special I	precautions for user:	-				



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Trading name:		GRAM DECOLORIZ	ZER SOLUTION 2		
Product code:	GD2-OT-X**	Revision date:	23 Dec 2022	Version:	5

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

SECTIO	CTION 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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Tradin	Trading name:		GRAM DECOLORIZER SOLUTION 2						
Produ	ct code:	GD2-OT-X**	Revision date:	23 Dec 2022	Version:	5			
	Other EU	regulations:	Regulation (EC) No 1907/200 18 December 2006 concern Restriction of Chemicals (R amending Directive 1999/45/ and Commission Regulation (and Commission Directives 91 Directive 2004/42/CE of the Et on the limitation of emissions solvents in certain paints and w Directive 1999/13/EC; Council Directive 98/24/EC of of workers from the risks relat Regulation (EC) No 1272/2000 December 2008 on classification amending and repealing Dir Regulation (EC) No 1907/2006 COMMISSION REGULATION (Regulation (EC) No 1907/2006 concerning the Registration, Et (REACH). REACH Restrictions on the matical dangerous substances, mixture	ing the Registration, Eva EACH), establishing a Eu (EC and repealing Council EC) No 1488/94 as well as (1/155/EEC, 93/67/EEC, 93/1 uropean Parliament and of of volatile organic compoun- varnishes and vehicle refinis 7 April 1998 on the protect red to chemical agents at w 8 of the European Parliame on, labelling and packaging rectives 67/548/EEC and 5; (EU) 2020/878 of 18 June 2 06 of the European Parlia Evaluation, Authorisation ar	Aluation, Authorisation ropean Chemicals A Regulation (EEC) No Council Directive 76/7 05/EC and 2000/21/EC the Council of 21 Aprimus due to the use of control hing products and am tion of the health and ork; ent and of the Council of substances and m 1999/45/EC, and am 020 amending Annex ment and of the Council of Restriction of Chem	on and Agency, 793/93 69/EEC C; ril 2004 organic ending d safety il of 16 ixtures, ending c II to puncil nicals			
	Information according 1 guideline)		9/13/EC about limitation of er	nissions of volatile orgar	nic compounds (VO	C-			
	National	legislation:	Chemicals Act, Regulation dangerous substances, Orc on biological limit values, F of waste with a waste catal writing Material safety data	linance on occupational Regulation on categories og and list of hazardous	exposure limit value , types and classifica waste, Ordinance o	ation on			
15.2	Chemical	safety assessment	t						
	None								

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



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Trading name:	GRAM DECOLORIZER SOLUTION 2				
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16.3.	-	rature references and of data:	-
16.4.		cation and procedure 008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classifie	cation		Classification procedure
-			-
16.5.	Relevar	nt H statements (numl	per and full text)
		225	Highly flammable liquid and vapor.
	H:	319	Causes serious eye irritation.
		336	May cause drowsiness or dizziness.
		(EUH066)	Repeated exposure may cause skin dryness or cracking.
16.6.	Training	g advice:	-
			** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Further information:		We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:	GRAM LUGOL SOLUTION, STABILIZED					
Product code:	GLS-OT-X**	Date of compilation:	14 November 2022	Version: 5		

SECTI	ON 1: Identification of	the substanc	e/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	GRAM LUG	SOL SOLUTIO	DN, STABILIZED	
	Chemical name:	-			
	Catalogue number:	GLS-OT-X*	*		
1.2.	Relevant identified uses of the substance or mixture and uses advised againstUses:Solution for use in BioGram 4 Gram bacteria staining kit.				
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advis	sed against:	uct is intended for use only as an <i>in vitro</i> diagnostic medical gistered at the Agency for Medicinal Products and Medical nd there is no reason to use it for other purposes		
1.3.	Details of the supplier	of the safety	data sheet		
	Supplier:	В	BioGnost Ltd.		
	Address:	N	Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:	+	+385 1 2404039		
	e-mail of competent p	erson: <u>n</u>	msds@biognost.hr		
	National contact:	-			
1.4.	Emergency telephone number				
	National Protection ar	nd Rescue Dir	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or	mixture			
2.1.1.	Classification according to Regula	tion (EC) No 12	272/2008 (CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For ful	text of Hazard- and EU Hazard-sta	itements: see S	ection 16		
2.2.	Label elements				
	Product identification:	GRAM LUGO	L SOLUTION, STABILIZED		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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Trading name:	GRAM LUGOL SOLUTION, STABILIZED					
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	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Properties:	
	No known endocrine disrupting prop	erties.

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

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	er: Treat symptomatically.			
4.2.	Most important symptoms a	d effects, both acute and delayed			
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			



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Tradin	ig name:	GRAM LUGOL SOLUTION, STABILIZED				
Produ	ct code:	GLS-OT-X** Date of compilation: 14 November 2022 Version: 5				
	Following	Following ingestion: According to our findings, chemical, physical and toxicological properties the substance have not been entirely tested.				
4.3.	Indication	of any immediate medical attention and special treatment needed				
	_					

SECTIC	ECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products: No information available				
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.				
5.4.	Additional information				
	Remove sources of heat and 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	1			
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures: Mark the area using proper signs.				
6.1.2.	For emergency responders:				
	Wear protective equipment (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures: Sand or clay barriers.				



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Desiduate as day CLC OT Vtt Data of associations 14 Neuropher 2022 Versions 5	Trading name:	GRAM LUGOL SOLUTION, STABILIZED						
Product code:GLS-OT-X**Date of compilation:14 November 2022Version:5	Product code:	GLS-OT-X**	Date of compilation:	14 November 2022	Version: 5			

6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.	
6.3.3.	Other information:	-	
6.4.	Reference to other sections		
	See Section 7 for information about secure handling.		
	See Section 8 for information about personal protective equipment.		
	See Section 13 for information	on about containment.	

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



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Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8. Exposur	e contr	ols/persona	al protec	tion				
8.1. Control para	meters							
				upational exposure limit lues/short term values		Biological limit values		
				F	opm	mg/m ³		
			-	-	No information available			
1								
Substance - name:								
EC No: - CAS No: -								
DNEL								
				Ind	lustrial			
Route of exposure:		Acute		Acute	e	Chron		
Noute of exposure.	effe	ect local	effe	ect syst	temic	effect lo	ocal effect systemic	
Oral				-	-			
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
Critical physical parar	neters: s	solubility, fla	immabilit	ty, corı	rosivity:	-		
			1	Cor	nsumer			
Route of exposure:		Acute		Acute		Chron		
	effe	ect local	effect sy		temic	effect lo	ocal effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC								
Environmental protect	tion tar	get			PNEC			
Fresh water					No information available			
Freshwater sediments	5				No information available			
Marine water					No infor	mation availabl	le	
Marine sediments					No infor	mation availabl	le	
Food chain					No infor	mation availabl	le	
Microorganisms in se	wage tr	eatment			No infor	mation availabl	le	
Soil (agricultural)					No infor	mation availabl	le	



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Trading name:	GRAM LUGOL SOLUTION, STABILIZED						
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Air			No information available			
8.2.	Exposure controls					
8.2.1.	Appropriate engineering	controls	· · · · · · · · · · · · · · · · · · ·			
	Substance/mixture relate measures to prevent exp during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to preserve 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	otection equipment				
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 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 relate measures to prevent exp		See Section 6			
	Structural measures to pr exposure:	revent	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to pr exposure:	event	See Section 6			



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Trading name:	GRAM LUGOL SOLUTION, STABILIZED							
Product code:	GLS-OT-X**	Date of compilation:	14 November 2022	Version: 5				

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

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

SECTION 11. Toxicological information



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Trading name:	GRAM LUGOL SOLUTION, STABILIZED							
Product code:	GLS-OT-X**	Date of compilation:	14 November 2022	Version:	5			

			lation (EC) No 127	,		
Acute toxic	ity:					
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure t	ime Results	
Oral exposure:	No information available	-	LD ₅₀	-	-	
Dermal exposure:	No information available	-	LD ₅₀	-	-	
Inhalation exposure:	No information available	-	LC ₅₀	-	-	
Specific tar	get organ toxicity – si	ngle exposure (S	TOT SE):			
		ic effects	Target	organ	Note	
Oral exposure:	No information		No informatio	-	-	
Dermal exposure:	No information			No information available -		
Inhalation exposure	: No information	available	No informatio	No information available -		
	1		1		1	
Aspiration	hazard:	No inforr	nation available			
•						
Irritation a	nd corrosion:					
	Exposure time	Species	Evaluation	Method	Note	
Skin irritation:	-	-	-			
Eye irritation:	-	_	-			
Sensitizatio	n					
Dermal exposure:	No information avail	able				
Inhalation exposure:	No information avail	able				
			oxicological chara	cteristics		
Symptoms	related to the physica	il, chemical and t				
Symptoms Oral exposure:		findings, chemica	al, physical and to	icological pro	perties of the substanc	
	According to our have not been en	findings, chemica tirely tested. findings, chemica			perties of the substanc perties of the substanc	



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Trading name:		GRAM LUGOL SOLUTION, STABILIZED								
Product code:	GLS-OT-X**	Date of compilation:	14 November 2022	Version: 5						

Eye exposure:		-	our findings, on entirely test	•	hysic	al and toxicolog	gical propert	ies of	the substance
Repeate	ed dose t	oxicity (sub	acute, subchro	onic, chroni	c)				
		Dose	Exposure time	Species		Method	Evaluation	n	Note
Subacute oral	No in availab	formation le	No information available	No informati available	on	No information available	No informatio available	on	-
Subacute dermal	No in availab	formation le	No information available	No informati available	on	No information available	No informatio available	on	-
Subacute inhalation	No in availab	formation le	No information available	No informati available	on	No information available	No informatio available	on	-
Subchronic oral	No in availab	formation le	No information available	No informati available	on	No information available			-
Subchronic dermal	No information available		No information available	No informati available			No informatio available	on	-
Subchronic inhalation	No in availab	formation le	No information available	No informati available	on	No information available	No informatio available	on	-
Chronic oral	No in availab	formation le	No information available	No informati available	on	No information available	No informatio available	on	-
Chronic dermal	No in availab	formation le	No information available	No informati available	on	No information available	No informatio available	on	-
Chronic inhalation	c No information info		No information available	No informati available	on	No information available	No informatio available	on	-
Cresific	target a	rean taviait	. repeated a			۲ <u>۰</u>			
specific	target 0		y – repeated e pecific effects	xposure (S		Target org	an		Note
Subacute oral			tion available		No i	nformation ava		-	
Subacute dermal		No informa	tion available		No i	nformation ava	ilable	-	
Subacute inhalat	ion	No informa	tion available		No i	nformation ava	ilable	-	
Subchronic oral		No informa	tion available		No i	nformation ava	ilable	-	



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Trading	g name:	GRAM LUGOL SOLUTION, STABILIZED								
Product code: GLS-OT-X**		S-OT-X**	Date of compile	Date of compilation: 14 November 202		Version:	5			
Subchro	onic dermal		No informati	on available	No ir	nformation available	-			
Subchro	onic inhalat	ion	No informati	on available	No ir	nformation available	-			
Chronic	c oral No informatio		on available	No ir	nformation available	-				
Chronic	onic dermal No informatio		on available	No ir	nformation available	-				
Chronic	hronic inhalation No information		on available	No ir	nformation available	-				
	CMR effec	cts (ca	rcinogenicity;	mutagenicity; reprodu	uctive to	oxicity)				
	Carcinogenicity:			Current studies on	test an	imals did not indicate car	cinogenic effe	ects.		
	Mutagenicity in-vitro:			Current <i>in vitro</i> t	ests die	d not indicate mutagenic	effects.			
	Genotoxicity:		No information av	ailable						
	Mutageni	city <i>ir</i>	n-vivo:	Current in vivo tests did not indicate mutagenic effects.						
	Germ cell	muta	genicity:	No information available						
	Reproduc	tive to	oxicity:	No toxicity on reproductive organs was determined in reproductive organs.						
	Summary	of ev	aluation of the	CMR properties:	-					
11.2.	Informatio	on on	other hazards	:						
11.2.1.	Endocrine	disru	pting properti	es:						
	No knowr	n end	ocrine disrupti	ng properties that affe	ect hum	an health.				
11.2.2.	Other info	ormat	ion:							
	-									

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



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Trading name:		GRAM LUGOL SOLUTION, STABILIZED								
Product code:	GLS-OT-X**	Date of compilation:	14 November 2022	Version: 5						

Fish		LC ₅₀	96 hoi	irc	No information available		information ilable	No informatio available	n -
Crustacea:		EC ₅₀	48 hoi	irc	No information available	-	information ilable	No informatio available	n -
Algae/aquatic	plants	IC ₅₀	72 hoi	irc	No information available		information ilable	No informatio available	n -
Other organis	ms	_	-	-		-		-	-
		nd degrada	bility						
Abiot	ic degra								
	Deg	radation ha	lf-lives		Method		Εv	aluation	Note
Marine water	No inf	formation av	vailable	No ir	nformation avail	able	No informat	tion availabl	le -
Fresh water	No inf	formation av	vailable	No ir	No information available No information			tion availabl	le -
Air	No inf	formation av	vailable	No ir	nformation avail	able	No informat	tion availabl	le -
Soil	No inf	formation av	vailable	No ir	nformation avail	able	No informat	tion availabl	le -
Biode	gradati	00							
% Degradatio	-	Time (day	s)		Method		Evaluation		Note
No informatio available	n No	-	mation	No info availab	ormation		o information vailable	No ir availa	nformation
12.3. Bioac	cumula	tive potentia	al						
Octar	nol-wate	er partition o	coefficier	nt (log K	low)				
Value	Conce	entration	pН	°C	Method		Evaluati	on	Note
_	No ir available	nformation e	-	-	No informationavailable	on	No informat available	ion -	
Bioco	ncentra	ition factor (BCF)						



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	ode: G	LS-OT-X**	C	GRAM							• –
No informa available				Date of compilation:		14 November 2022		Vers	sion: 5		
		o inform vailable	nation	No infor available		ation No info availabl		lo information vailable		No information available	
Cł	nronic ecoto	oxicity	1				1		1		
١	/alue	Dose	-	oosure ime	Spe	ecies	Met	hod	Eva	luation	Note
Chronic to	kicity on fisł	ח LC ₅₀	No infor avail	mation	No inforr availa	nation ble	No inform availab		No inforn availa		-
Chronic to> crustacea (/	•	EC ₅₀	No infor avail	mation	No inforr availa	nation ble	No inform availab		No inform availa		-
Su	irface tensic Value	°C	C	oncentrati	ion		Methc	d		N	lote
No	Value	1		oncentrati informati		No inf	Metho			N	lote
	ailable	available	ava	ailable		availat	ole				
Ac	dsorption /	desorption									
Transport	A/D	coefficient y's constant	lo	og Kow	Εv	aporati	on rate	М	ethod		Note
Soil-water	No available	information	No ir availa	nformatior able		o inform ailable	nation	No info availab	ormatio Ile	n _	
Water-air	No available	information	No ir availa	nformatior able		o inform ailable	nation	No info availab	ormatio ole	n -	
Soil-air	No available	information	No ir availa	nformatior able		o inform ailable	nation	No info availab	ormatio ole	n -	



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Trading name:	GRAM LUGOL SOLUTION, STABILIZED								
Product code:	GLS-OT-X**	Date of compilation:	14 November 2022	Version:	5				

12.6.	Endocrine disrupting properti	ies
	No known endocrine disrupti	ng properties that affect the environment.
12.7.	Other adverse effects	
	No adverse effects are expec	ted.
	N 13. Disposal consideration	S
13.1.	Waste treatment methods	
13.1.1.	Droduct/Dockoging dispose	1.
15.1.1.	Product/Packaging disposa	egal person authorized by the Ministry of Environmental and Nature
	Protection.	egal person authorized by the ministry of environmental and Nature
	:	
13.1.2.	Waste codes/waste designa	ations according to Law:
	No information available	
13.1.3.	Waste treatment – relevant	information:
	No information available	
13.1.4.	Sewage disposal – relevant	
	Waste must not be dispose	d of into the sewage system.
40.45		
13.1.5.	Other disposal recommend	
		uct's remains into the sewage system. Submit the remains to the collectors n charge. Do not dispose of the packaging into the sewage system. Submit
	the packaging to the collect	tors authorized by the ministry in charge. Do not dispose of in places where
	ignition may occur.	
13.1.6.	Relevant Community provis	ions:
	-	
SECTIO	N 14 Transport information	
SECHO	N 14. Transport information	
UN num	Transporting/shipment by roa	Not subject to transport regulations.
	per shipping name:	-
	ort hazard class(es):	-
nanspo	n (11a2a1 U Class(ES).	



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Trading name:		UTION, STABILIZED	LIZED				
Product code:	GLS-OT-X**	Date of compilation:	14 November 2022	Version: 5			
5 1.							
Packing group:		-					
Environmentally ha		-					
Special precautions		-					
1	ng/shipment by rai						
UN number:		Not subject to transport	regulations.				
UN proper shipping	g name:	-					
Transport hazard cl	lass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Inland wat	terway transport (A	DN)					
UN number:		Not subject to transport	regulations.				
UN proper shipping	g name:	-					
Transport hazard cl	lass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transporti	ng/shipment by se	a (IMDG)					
UN number:		Not subject to transport	regulations.				
UN proper shipping	g name:	-					
Transport hazard cl		-					
Packing group:		-					
Environmentally ha	zardous:	_					
Special precautions		_					
		(ICAO-TI/IATA-DGR)					
UN number:	3, 1,,	Not subject to transport	regulations.				
UN proper shipping	a name:	-					
Transport hazard cl		_					
Packing group:		-					
Environmentally ha	zardous.	-					
Special precautions		-					
Further information	The produc	t is not subject to classificatio	'n				



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Trading name:	GRAM LUGOL SOLUTION, STABILIZED									
Product code:	GLS-OT-X**	Date of compilation:	14 November 2022	Version:	5					

	EU regulations		
	Authorization and/or rest	trictions of use	
	Authorizations:	-	
	Restrictions:	-	
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EE and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2000 on the limitation of emissions of volatile organic compounds due to the use of organi solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safet of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 1 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 certai dangerous substances, mixtures and articles (Annex XVII); 	
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
15.2.	Chemical safety assessme	ent	
	None		

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



-

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

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Tradin	g name:		GRAM LUGOL SOL	UTION, STABILIZED		
Product code: GLS-OT-X**			Date of compilation:	14 November 2022	Version:	5
16.2.	Abbreviati	ions and acronyms:	EINECS: European Inventory	Concerning the Internation e Code for Dangerous Goods sport Association System of Classification and of Existing Commercial Cher ervice (division of the Americ evel (UK REACH) , 50 percent ent ulative and Toxic	al Carriage of E s Labelling of Ch nical Substance	Dangerous nemicals
16.3.	Key literat source of	ure references and data:	-			
16.4.	Classificat 1272/2008	•	used to derive the classification	on for mixture according t	o Regulation	(EC)
Classifi	cation		Classification procedure			
-			-			
16.5.	Relevant H	l statements (num	per and full text)			
	H: -		-			
16.6.	Training a	dvice:	-			
16.7.	Further int	formation:	 ** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. 			ly with

ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trading name:		GRAM SAFRAN	IN SOLUTION		
Product code:	GSF-OT-X**	Revision date:	23 Dec 2022	Version:	6

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	GRAM SAF	RANIN SO	LUTION		
	Chemical name:	-	-			
	Catalogue number:	GSF-OT-X**	*			
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against		
	Uses:		For use	in Gram staining using BioGram 4 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	erson:	msds@biognost.hr			
	National contact:	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:			-		

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance	e or mixture			
2.1.1	Classification according to Re	gulation (EC) No 12	272/2008 (CLP)		
	Hazard class and category code: Hazard statements*:			Hazard statements*:	
	Flam. Liq. 3		H226		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard	d-statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	Product identification: GRAM SAFRANIN SOLUTION			
	Identification number:	-			
	Authorization number:	-			



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Trading name:	GRAM SAFRANIN SOLUTION				
Product code:	GSF-OT-X**	Revision date:	23 Dec 2022	Version:	6

	Hazard pictograms:	GHS02		
	Signal word:	Danger		
	Hazard statements:	H226 Flammable liquid and vapor.		
	Precautionary statements:	 P210 Keep away from heat, hot sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. 		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	The product has no other know	n specific hazards for human or environment.		
	Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.			
	Endocrine disrupting property:	Based on available data, does not contain endocrine disruptors.		

SECTION 3. Co	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	10 – 20 %	ethanol	Flam. Liq. 2; H225		

SECT	SECTION 4. First aid measures				
4.1	Description of first aid measu	res			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificial respiration. In case of complaints call a physician.			
	Following skin contact:	Remove the contaminated clothes. Wash the skin surface under plenty of running water. Seek medical assistance if the symptoms of irritation remain.			



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Trading name:	GRAM SAFRANIN SOLUTION					
Product code:	GSF-OT-X**	Revision date:	23 Dec 2022	Version:	6	

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

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



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Trading name:		GRAM SAFRA	NIN SOLUTION		
Product code:	GSF-OT-X**	Revision date:	23 Dec 2022	Version:	6

6.1	Personal precautions, protectiv	e equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Avoid contact with skin, eyes and clothing and inhaling gases, vapours and aerosols. Ensure adequate ventilation. Vapours may accumulate at floor level in low and confined spaces. Remove all heat, ignition and spark sources, turn off machines. Ignition spark arrestor must not be operated in the danger area. Use spark-proof tools. Be aware of the risk of slipping.				
6.2	Environmental precautions:				
	Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.				
6.3	Methods and material for cont	ainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Cleaning up:	Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. During the collection, placement, disposal of the waste, wear appropriate individual protective equipment. Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution).			
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).			
6.4	Reference to other sections				
	See Section 7 for information on safe handling.				
	See Section 8 for information on personal protection equipment.				
	See Section 13 for disposal information.				

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



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Tradir	ng name:		GRAM	/I SAFRA	NIN SOLUTION	Fage 5 01 1		
Produ	uct code:	GSF-OT-X**	Revision	date:	23 Dec 2022	Version:	6	
Measures to prevent fire:			Use in well ventilated storage rooms. Kee away from heat, hot surfaces, sparks, ope flames and other ignition sources. N smoking. Use non-sparkling tools an equipment.					
	Measures	s to prevent aerosol an	d dust generatio	n:	Ensure adequate v	entilation.		
	Measures	s to protect the enviror	iment:		Prevent spilling int and waterways.	to the sewage syste	m	
	Other me	easures:			Protect against ele	ctrostatic charges.		
7.1.2.	Advice or	Advice on general occupational hygiene:						
	Do not ea	at, drink or smoke in th	e workspace. The	oroughly	wash hands after work	and before eating.		
7.2	Conditions for safe storage, including any incompatibilities							
	Technical measures and storage conditions:		conditions:	Store in a well-ventilated place, protected from sunlight, away from sources of heat and ignition, in its original, unopened and hermetically sealed packaging, away from oxidizing agents, food, feed and articles of consumption.				
	Packaging	g materials:		Manufacturer's original packaging.				
	Requirem	nents for storage room	s 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 in	nformation on storage	conditions:	and do	place the unused math not use empty cont als. Do not store with in 10).	tainers for storing	other	
7.3	Specific e	end use(s)						
	Recomme	endations:		-				
	Industrial	sector specific solutio	ns:	-				

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



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Trading name:		GRAM SAFRAM	IN SOLUTION		
Product code:	GSF-OT-X**	Revision date:	23 Dec 2022	Version:	6

EC No:		-	CAS No	:	-				
DNEL									
					Ind	lustrial			
Route of		Acu	te		Acute		Chronic	Chronic	
exposure:		effect	local	effe	ct systemic		effect local	effect systemic	
Oral	-			-		-		-	
Inhalation		1900 mg (ethanol)		-		-		380 mg/m ³ (ethanol)	
Dermal	-			-		-		343 mg/kg (ethanol)	
Critical physic	al para	meters: s	olubility,	flamm	ability, corr	rosivity:	-		
					Cor	nsumer			
Route of exposure:			cute t local	effe	Acute ct systemic	:	Chronic effect local	Chronic effect systemic	
Oral		-		-		-		87 mg/kg bw/day (ethanol)	
Inhalation		950 m (ethan	0	-		-		114 mg/m ³ (ethanol)	
Dermal		-		-		-		206 mg/kg (ethanol)	
PNEC									
Environmenta	l prote	ction targ	get			PNEC			
Fresh water						0.96 mg/l (ethanol)			
Freshwater see	diment	S				3.6 mg/kg (ethanol)			
Marine water						0.79 mg/l (ethanol)			
Marine sedime	ents					2.9 mg/kg (ethanol)			
Food chain						380-720 mg/kg (ethanol)			
Microorganisr	ns in se	ewage tre	eatment			580 mg/l (ethanol)			
Soil (agricultu	ral)					0.63 mg/kg (ethanol)			
Air						no information available			
8.2 E	xposur	e control	s						
8.2.1. A	pprop	riate eng	ineering (contro	ls				
			re related e during i		ures to ed uses:	In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.			
	tructur xposur		res to pre	event		In accord	ance with Section 7.		



				_		Page 7 of 17		
Trading	name:	GRAM SAFRANIN SOLUTION						
Product	code:	GSF-OT-X**	Revisi	on date:	23 Dec 2022	Version: 6		
	Organisational measures to prevent exposure:		event	-	on of work in order to r Juring work process.	educe other worker's		
	Techn	ical measures to prevent	exposure:	In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Use according to general application methods and with adequate ventilation.				
				Provide ap	oarkling ventilation syst propriate personal prot d eye-wash station.	ent. ective equipment, safety		
8.2.2.	Perso	nal protection equipment	:	***				
8.2.2.1.	Eye ar	nd face protection:	•	propriate, cl 321-1:2022,	• •	e glasses/face shield (EN		
8.2.2.2.	Skin p	protection	i.					
	Hand	protection:	Use ap	propriate, cl	nemical-resistant protec	ctive gloves (EN 374).		
	Other	skin protection:	Use ap	propriate pr	otective clothing.			
8.2.2.3.	Respi	ratory protection:	concer in the contac	In case of normal usage and ventilation, it is not neces concentration of ethyl alcohol exceeds occupational exposur in the air, use a self-contained breathing apparatus. Fo contact and if the oxygen content of the air is greater than 18 a protective gas mask with filter A (EN 14837/A1).		cupational exposure limits ing apparatus. For short r is greater than 18 %, use		
8.2.2.4.	Therm	nal hazards:	No the	ermal hazard	s known.			
8.2.3.	Enviro	onmental exposure contro	ols					
		ance/mixture related ures to prevent exposure:	See Se	ction 6				
	Struct expos	ural measures to prevent ure:	Use m	se modern equipment.				
	-	nisational measures to nt exposure:		Adapt the work process to the required working conditions of the workplace.				
	Techn expos	ical measures to prevent ure:	See Section 6					

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



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Product code:	GSF-OT-X**	Revision date:	23 Dec 2022	Version:	6

	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	49 °C	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	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 Section 10.5.					
10.2	Chemical stability:	Stable within normal temperature and general work conditions.					
10.3	Possibility of hazardous reactions:	See Section 10.5.					
10.4	Conditions to avoid:	Keep away from heat, sparks, open flames, strong heating and ignition sources. No smoking.					
10.5	Incompatible materials:	Strong oxidizing agents (inorganic strong acid, nitric acid, perchlorates, peroxy compounds, perchloric acid, permanganates etc.), alkali metals, alkali earth metals.					
10.6	Hazardous decomposition products:	Carbon monoxide and carbon dioxide.					

SECTION 11. Toxicological information								
11.1 Informatio	Information on hazard classes as defined in Regulation (EC) No 1272/2008							
Acute toxicity:								
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results			
Oral:	-	rat (ethanol)	LD ₅₀	-	7.060 mg/kg			
Dermal:	-	rabbit (ethanol)	LD ₅₀	-	>20.000 mg/l			



Page 9 of 17 Trading name: **GRAM SAFRANIN SOLUTION** Product code: GSF-OT-X** Revision date: 23 Dec 2022 Version: 6 Inhalation: rat (ethanol) LC₅₀ 4 h >8.000 mg/l Specific target organ toxicity - single exposure (STOT SE): Note Specific effects Target organ No information available No information available Oral: _ Dermal: No information available No information available _ Inhalation: No information available No information available _ Aspiration hazard: No information available. Irritation and corrosion Exposure time Species Evaluation Method Note Skin _ _ corrosion/irritation: Serious eye _ _ -_ damage/irritation Sensitization Skin sensitization: No information available. Respiratory sensitization: No information available. Symptoms related to the physical, chemical and toxicological characteristics Absorption of great quantities may cause dizziness, drunkenness, euphoria, unconsciousness and alcohol poisoning. In case of swallowing great quantities, nausea and Oral exposure: vomiting may occur. Repeated or prolonged exposure may lead to liver cirrhosis. After prolonged or repeated exposure symptoms may include: defatting, dryness and Dermal exposure: cracking of skin. Inhalation of great quantities may cause dizziness, euphoria and mild irritation of the mucous Inhalation exposure: membranes. Eye exposure: May cause irritation and redness. Repeated dose toxicity (subacute, subchronic, chronic) Exposure Method Evaluation Dose Species Note time No No No No information No information information Subacute oral information information available available available available available



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Trading name:	GRAM SAFRANIN SOLUTION					
Product code:	GSF-OT-X**	Revision date:	23 Dec 2022	Version:	6	

Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

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



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						Tuge IT OF I					
Trading	g name:		GRAM SAFRANIN SOLUTION								
Produc	ct code:	GSF-OT-X**	Revis	ion date:	Version: 6						
	Mutagenicity in vitro:			sed on availa	ble data, the classificati	on criteria are not r	net.				
	Genotoxi	city:	Ba	sed on availa	ble data, the classificati	on criteria are not r	net.				
	Mutagen	icity <i>in vivo</i> :	Ba	sed on availa	ble data, the classificati	on criteria are not r	net.				
	Germ cell	mutagenicity:	Ba	Based on available data, the classification criteria are not met.							
	Reproduc	ctive toxicity:	Ba	Based on available data, the classification criteria are not met.							
	Summary propertie		the CMR	Based on a met.	available data, the clas	sification criteria a	re not				
11.2	Informati	on on other hazards:									
11.2.1.	Endocrine	e disrupting properties:									
		available data, does no e disruptors.	ot contain								
11.2.2.	Other info	ormation:									
	-										

SECTION 12. Ecologie	cal informat	ion						
12.1 Toxicity								
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	golden orf	No information available	8.140 mg/l /48 h (ethanol)	-		
Crustacea:	EC ₅₀	48 hours	daphnia magna	No information available	7.800 mg/l (ethanol)	-		
Algae/aquatic plants	IC ₅₀	4 days	algae	No information available	5.000 mg/l / 7d (ethanol)	-		
Other organisms	-	-	-	_	-	-		
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-		
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-		



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Trading name:					GRAM SAFR	ANIN	SOLUTIO	N			
Product code:	(GSF-OT-X**		R	evision date:	2	3 Dec 202	2022 Ve		ion:	6
Algae/aquatic p	e/aquatic plants IC ₅₀ 72 hours		s available		information		No inf availal	ormation ole	-		
Other organism	S	-	-	-	_	-		-		-	
12.2 Persiste	ence a	and degradab	oility								
Abiotic		adation									
	D	Degradation half-lives			Method		Evaluation			Note	
Marine water	No i	information a	vailable		information ilable	No ir availa	nformatior able	١	-		
Fresh water	No i	o information available			information ilable	No ir avail	nformatior able	ו	-		
Air	No i	No information available		No information available		No information available		١	-		
Soil	bil No information available		No information available		No information available		-				
						1		:			
Biodeg	radat	ion									
% Degradatio	n	Time (c	lays)	Method			Evaluation	n		Note	
No information available		No int available	formation	No information available		No information available		١	No information available		
12.3 Bioaccu	imula	ntive potentia		:		1					
		er partition co		loa K	ίοw)						
Value		ncentration	pH	°C	Method		Evalua	ation		Note	
-	-				-		_		-		
Biocon	centra	ation factor (E	BCF)			-					
Value		Specie	es		Method		Evaluatio			Note	
-		No inf available	ormation		information ilable		information ilable	on	-		



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Trading name:		GRAM SAFRAN	IN SOLUTION		
Product code:	GSF-OT-X**	Revision date:	23 Dec 2022	Version:	6

	Value		Dose	Exposure time	Spe	ecies	Meth	nod	E٧	aluation	Note
Chroni	c toxicity	on fish	LC ₅₀	No information available	No inforr availa	mation able	No inform availab		-	ormation ilable	-
	c toxicity ea (<i>Daph</i>		EC ₅₀	No information available	No inforr availa	nation Ible	No informa availab		-	ormation ilable	-
12.4	Mobilit	y in soi									
	Known	or pred	dicted distributi	on in environm	ental c	compart	ments:				
	No info	ormatio	n available								
	Surface	tensio	n:	1							
	Val	Je	°C	Concentrat	tion		Metho	d			Note
	No informa availab		No information available	No informat available	ion	No inf availat		ormation -		-	
	Adsorp	tion / c	lesorption								
Transp	ort		D coefficient ry's constant	log Kow	Εv	vaporati	on rate		Meth	od	Note
Soil-wa	ater	No availa	information able	No informatio available		o inform ailable	ation	No ir availa	-	nation	-
Water-	air	No availa	information able	No informatio available		o inform ailable	ation	No ir availa		nation	-
Soil-air	air No information No information available available			No information No information available available		nation	-				
12.5	Reculte	of PRT	and vPvB asses	sment							
12.5				product does no	ot cont	ain any	PBT or v	PvB su	bstar	nces.	
12.6.	Endocr	ine disr	upting properti	es							
				not contain en	–						



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Trading name:		GRAM SAFRA	NIN SOLUTION		
Product code:	GSF-OT-X**	Revision date:	23 Dec 2022	Version:	6

		Other adverse effects						
	Do not let the product or its residues reach sewer system, waterways and soil.							
SECTION	l 13. Disposal consideratio	ns						
13.1	Waste treatment methods							
	:							
13.1.1.	Product/Packaging dispos	al:						
	Submit for disposal to the Protection.	legal person authorized by the Ministry of Environmental and Nature						
13.1.2.	Waste codes/waste design	nations according to Law:						
	Packaging that contains re	esidual hazardous substances or is contaminated with hazardous substances						
13.1.3.	Waste treatment – relevar	it information:						
	No information available							
13.1.4.	8.1.4. Sewage disposal – relevant information:							
	Waste must not be dispos	ed of into the sewage system.						
13.1.5.	Other disposal recommen							
	authorized by the ministry	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. Unused product residues may be						
13.1.6.	Relevant Community prov	isions:						
	Disposal must be made ac	cording to official regulations.						
CECTION								
	1 14 TRANSPORT INFORM							
UN numb	Transporting/shipment by re	1170						
	er shipping name:	Ethanol solution						
	t hazard class(es):	3						
Packing g								
	ientally hazardous:	-						
	recautions for user:	-						
	Transporting/shipment by ra	ail (RID)						
UN numb	per:	1170						



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Trading name:	GRAM SAFRANIN SOLUTION				
Product code:	GSF-OT-X**	Revision date:	23 Dec 2022	Version:	6
	1		1	<u>i</u>	

UN proper shipping name:		Ethanol solution		
Transport hazard class(es):		3		
Packing group:		Ш		
Environmentally hazardo	JS:	-		
Special precautions for us	ser:	-		
Inland waterway	transport (ADN)			
UN number:		1170		
UN proper shipping nam	e:	Ethanol solution		
Transport hazard class(es):	3		
Packing group:		Ш		
Environmentally hazardo	JS:	-		
Special precautions for us	ser:	-		
Transporting/shi	pment by sea (IN	/IDG)		
UN number:		1170		
UN proper shipping nam	e:	Ethanol solution		
Transport hazard class(es):	3		
Packing group:		III		
Environmentally hazardo	us:	-		
Special precautions for us	ser:	-		
Transport in bulk accord of MARPOL 73/78 and th		-		
Transporting/shi	pment by air (IC	AO-TI/IATA-DGR)		
UN number:		1170		
UN proper shipping nam	e:	Ethanol solution		
Transport hazard class(es):		3		
Packing group:		III		
Environmentally hazardous:		-		
Special precautions for user:		-		
Further information:	volume is not s	rovision 144 – An aqueous solution containing 24% or less alcohol by subject to classification.		
		rovision A58 - An aqueous solution containing 24% or less alcohol by subject to classification.		

SECTIO	SECTION 15. Regulatory information			
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture			



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

SECTION 16. Other information		
16.1	Indication of changes:	-



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Trading name:			GRAM SAFRA	GRAM SAFRANIN SOLUTION				
Product code: GSF-OT-X**			Revision date:	23 Dec 2022	Version:	6		
16.2	Abbreviat	ions and acronyms:	ADR: Accord relatif au trans route (European Agreement Goods by Road) IMDG: International Maritim IATA: International Air Tran GHS: Globally Harmonised EINECS: European Inventory CAS: Chemical Abstracts S DNEL: Derived No-Effect Le LC50: Lethal concentration LD50: Lethal dose, 50 perc PBT: Persistent, Bioaccum vPvB: very Persistent and v	Concerning the Internation e Code for Dangerous Go sport Association System of Classification a of Existing Commercial C Service (division of the Amercial Corvice (division of the Amercial Service (UK REACH) 50 percent ent nulative and Toxic	ional Carriage of Dang oods and Labelling of Chem hemical Substances	gerous		
16.3.		Key literature references and source of data:						
16.4.	Classificat 1272/200	•	sed to derive the classification	on for mixture accordin	ng to Regulation (EC)		
Classifi	cation		Classification procedure					
-			-					
16.5.	Relevant I	H statements (numbe	er and full text)					
	H: 2	225	Highly flammable liquid and vapor.					
	2	226	Flammable liquid and vapor.					
16.6.	Training a	advice:	-					
16.7.	Further in	formation:	** "X" in the product code marks different volumes (different packaging the product) mation: We are not responsible for consequences in case of failure to comply winter 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:	PICRIC ACID IN ACETONE, SOLUTION				
Product code:	PKA-OT-X**	Revision date:	23 Dec 2022	Version:	6

1.1	Product identifier					
	Trading name:	PICRIC ACI	D IN ACET	ONE, SOLUTION		
	Chemical name:	-	-			
	Catalogue number:	PKA-OT-X*	PKA-OT-X**			
1.2	Relevant identified use	es of the subs [.]	tance or m	nixture and uses advised against		
	Uses:		For use v	with special staining kits.		
	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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:	Address:		Medjugorska 59, Zagreb		
	Telephone number:	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039			
	e-mail of competent p	person:	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 or mixture					
2.1.1	Classification according to Regula	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category code: Hazard statements*:					
	Flam. Liq. 2 H225					
	Eye Irr. 2 H319					
	STOT SE 3	H336				
		EUH066				
2.1.2.	Additional information					
	-					
*For ful	*For full text of Hazard- and EU Hazard-statements: see SECTION 16					
2.2	Label elements					
	Product identification: PICRIC ACID IN ACETONE, SOLUTION					



Identification number:

Authorization number:

Trading name: Product code:

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

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on number:
on number:
-

	Hazard pictograms:					
		GHS02 GHS07				
	Signal word:	Danger				
	Hazard statements:	 H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. EUH066 Repeated exposure may cause skin dryness or cracking. 				
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 				
	Supplemetal hazard information (EU):	-				
2.3	Other hazards					
	The product has no other known specific hazards for human or environment.					
	Results of PBT and vPvB assessment: Based on available data, the product does not contain any PBT or vPvB substances.					
	Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.					

SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
67-64-1/ 200-662-2/ 606-001-00-8	-	80 - 100 %	acetone	Flam. Liq. 2; H225 Eye Irr. 2; H319 STOT SE 3; H336		
88-89-1/ 201-865-9/ 609-009-00-X	-	< 0.1 %	picric acid	Expl. 1.1; H201 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331		



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Trading name:	PICRIC ACID IN ACETONE, SOLUTION						
Product code:	PKA-OT-X**	Revision date:	23 Dec 2022	Version:	6		

4.1	Description of first aid measures					
	General notes:	If the suggested first aid measures do not prove sufficient, seek medic attention.				
	Following inhalation:	Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificia respiration. In case of complaints call a physician.				
	Following skin contact:	Remove the contaminated clothes. Wash the skin surface under plent of running water. Seek medical assistance if the symptoms of irritation remain.				
	Following eye contact:	In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for at least 10 minutes). If the symptoms remain immediately call in ophthalmologist.				
	Following ingestion:	Place the victim in a comfortable position. Rinse the mouth with clear water. If the victim is conscious induce vomiting.Do not give the victim anything orally, and do not induce vomiting the victim is unconscious or suffers from convulsions.				
	Self-protection of the first aider:	-				
4.2	Most important symptoms and effects, both acute and delayed					
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.				
	Following skin contact:	Defatting, dry skin.				
	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 med	lical attention and special treatment needed				

SECTI	SECTION 5. Firefighting measures					
5.1	Extinguishing media					
	Suitable extinguishing media: Dry powder, alcohol-resistant foam, water spray, carbon-dioxide.					
	Unsuitable extinguishing media: No information available.					
5.2	Special hazards arising from the substance or mixture					
	Hazardous combustion products: No information available.					
5.3	Advice for firefighters					
	Wear full protective clothing and self-contained breathing apparatus. Cool the fire affected containers with water spray. Use water spray to dissipate alcohol vapors.					



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Trading name:	PICRIC ACID IN ACETONE, SOLUTION					
Product code:	PKA-OT-X**	Revision date:	23 Dec 2022	Version:	6	

5.4 Additional information -

SECTIO	ON 6. Accidental release meas	ures					
6.1	Personal precautions, protective equipment and emergency procedures						
6.1.1.	For non-emergency personne	1					
	Protective equipment:	Use personal protective equipment (see Section 8).					
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment.					
	Emergency procedures:	Mark the area using proper signs.					
6.1.2.	For emergency responders:						
	ventilation. Vapors may accun	and clothing and inhaling gases, vapors and aerosols. Ensure adequate nulate at floor level in low and confined spaces. Remove all heat, ignition achines. Ignition spark arrestor must not be operated in the danger area. Use f the risk of slipping.					
6.2	Environmental precautions:						
	not allow the product and th	e resulting waste according to the applicable environmental regulations. Do e resulting waste to enter sewers/soil/surface or ground water. Notify the dance with local law in the case of environmental pollution immediately.					
6.3	Methods and material for 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:	Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. During the collection, placement, disposal of the waste, wear appropriate individual protective equipment. Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution).					
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).					
6.4	Reference to other sections						
	See Section 7 for information	on safe handling.					
		on personal protection equipment.					
	See Section 13 for disposal in	formation.					

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



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Tradin	ig name:	me: PICRIC ACID IN ACETONE, SOLUTION							
Produ	ct code:	PKA-OT-X**	Revisior	n date:	23 Dec 2022	Version:	6		
	Measures to prevent fire:				Use in well ventilated storage rooms. Kee away from heat, hot surfaces, sparks, ope flames and other ignition sources. N smoking. Use non-sparkling tools ar equipment.				
	Measures	s to prevent aerosol an	d dust generatio	on:	Ensure adequate v	entilation.			
	Measures to protect the environment:				Prevent spilling int and waterways.	o the sewage syster	n		
	Other measures:				Protect against ele	ctrostatic charges.			
7.1.2.	Advice o	n general occupational	hygiene:						
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.								
7.2	Conditio	ns for safe storage, incl	5						
	Technica	Technical measures and storage conditions: ur from the storage condition of the storage conditing condition of the storag			Store in a well-ventilated place, protected from sunlight, away from sources of heat and ignition, in its original, unopened and hermetically sealed packaging, away from oxidizing agents, food, feed and articles of consumption.				
	Packagin	g materials:		Manufa	lanufacturer's original packaging.				
	Requirem	nents for storage room	s and vessels:		p away from food and drink. Keep the containers htly 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.			that		
	Further information on storage conditions:		Do not place the unused material in the storage roor and do not use empty containers for storing othe chemicals. Do not store with incompatible materials (se Section 10).			other			
7.3	Specific e	end use(s)							
	Recomm	endations:		-					
	Industria	l sector specific solution	ns:	-					

SECTION 8. Exposure controls/personal protection								
8.1 Control parameters	8.1 Control parameters							
Substance	CAS No		exposure limit t term values	Biological limit values				
		ppm	mg/m ³	-				
Acetone	67-64-1	500/-	1210/-	-				
Substance name: -								



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Trading name:	PICRIC ACID IN ACETONE, SOLUTION						
Product code:	PKA-OT-X**	Revision date:	23 Dec 2022	Version:	6		

EC No:		-	CAS No	:	-				
DNEL									
					In	dustrial			
Route of		Acu	te		Acute		Cł	nronic	Chronic
exposure:		effect	local	effe	ct systemi	с	effe	ect local	effect systemic
Oral		-		-		-			-
Inhalation		-		-		-			1210 mg/m ³ (acetone)
Dermal		-		-		-			186 mg/kg (acetone)
Critical phy	sical para	ameters: s	olubility,	flamm	ability, coi	rrosivity:		-	
					Co	nsumer			
Route of		Ac	ute		Acute		Cł	nronic	Chronic
exposure:		effec	t local	effe	ct systemi	с	effe	ect local	effect systemic
Oral		-		-		-			-
Inhalation		-		-		-			200 mg/m ³ (acetone)
Dermal		-		-		-			62 mg/kg (acetone)
PNEC									
Environmer	ntal prote	ection targ	get			PNEC			
Fresh water	r					10.6 mg/l (acetone)			
Freshwater	sedimer	its				30.4 mg	g/kg (a	cetone)	
Marine wat	er					1.06 mg	g/kg (a	cetone)	
Marine sed	iments					3.04 mg/kg (acetone)			
Food chain						no information available			
Microorgar	nisms in s	sewage tre	eatment			100 mg/l (acetone)			
Soil (agricu						33.3 mg/kg (acetone)			
Air	,							n available	
8.2	Exposu	re control	S						
8.2.1.	Approp	oriate eng	ineering	contro	ls				
	Substa	bstance/mixture related measures to event exposure during identified uses:			sures to	In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.			he employer's duty to keep to a minimum achievable by nnological means, where the
	Structu exposu	iral measu ire:	res to pre	event		In accordance with Section 7.			
	Organi exposu	sational m re:	neasures ⁻	to prev	/ent	Organization of work in order to reduce other worker's influence during work process.			



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Trading	name:	PICRIC ACID IN ACETONE, SOLUTION						
Product	code:	РКА-ОТ-Х**	-X** Revision date: 23 Dec 2022			Version:	6	
	Technical measures to prevent expos			avoid spilli contact wit application Use non-sp Provide ap	ce of work is proper for ng onto clothes and flo h eyes and skin. Use acc methods and with ade parkling ventilation syst propriate personal prot d eye-wash station.	ors and to avoid cording to general equate ventilation. em.	afety	
8.2.2.	Persor	nal protection equipment	protection equipment					
8.2.2.1.	Eye ar	nd face protection:		propriate, ch 321-1:2022,	emical-proof protective EN 166).	e glasses/face shield	ל (EN	
8.2.2.2.	Skin p	rotection						
	Hand	protection:	Use ap	Use appropriate, chemical-resistant protective gloves (EN 374).				
	Other	skin protection:	Use ap	propriate pr	otective clothing.			
8.2.2.3.	Respir	atory protection:	concer in the contac	In case of normal usage and ventilation, it is not necessary concentration of ethyl alcohol exceeds occupational exposure lin in the air, use a self-contained breathing apparatus. For sh contact and if the oxygen content of the air is greater than 18 %, a protective gas mask with filter A (EN 14837/A1).			limits short	
8.2.2.4.	Therm	al hazards:	No the	rmal hazard	s known.			
8.2.3.	Enviro	nmental exposure control	S					
		ance/mixture related ires to prevent exposure:	See Se	e Section 6				
	Struct expos	ural measures to prevent ure:	t Use modern equipment.					
	0	isational measures to nt exposure:	Adapt the work process to the required working conditions of workplace.				f the	
	Techn expos	ical measures to prevent ure:						

SECTI	SECTION 9. Physical and chemical properties						
9.1	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Colour:	yellow	No information available				
	Odour/odour threshold:	acetone like/no information available	No information available				
	Melting point / freezing point:	No information available	No information available				
	Boiling point or initial boiling point and boiling range:	No information available	No information available				



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Trading name:		PICRIC ACID IN ACETONE, SOLUTION					
Product code:	РКА-ОТ-Х**	Revision date:	23 Dec 2022	Version:	6		

.2	Other information		
	Particle characteristics:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Solubility:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	pH:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Flash point:	< 0 °C	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flammability:	No information available	No information available

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

SECTION 11. Toxicological information									
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008									
Acute tox	icity:								
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results				
Oral:	-	rat (acetone)	LD ₅₀	-	5.800 mg/kg				
Dermal:	-	rabbit (acetone)	LD ₅₀	-	20.000 mg/kg				
Inhalation:	-	rat (acetone)	LC ₅₀	4 h	76 mg/l				



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Trading name:	F	PICRIC ACID IN ACE	TONE, SOLUTION		
Product code:	PKA-OT-X**	Revision date:	23 Dec 2022	Version:	6

Specific	target o	organ toxicit	y – single exp	osure (STO	T SE):				
		Speci	fic effects		-	Target organ		I	Note
Oral:	No	information	available	N	No information available		ble	-	
Dermal:	No	information	available	N	o inforr	nation availa	ble	-	
Inhalation:	Nai	rcotic effects		N	o inforr	nation availa		may caus or dizzine	e drowsiness ss.
Aspirat	ion haza	ird:	1	No informat	tion ava	ilable.			
Irritatio	n and co	orrosion							
:		Exposur	e time	Species	E	Evaluation	Method		Note
kin orrosion/irritation:		-		-		-	-		
Serious eye damage/irritation		-		-		-	-		
Sensitiz									
Skin sensitizatio	n:	No inf	ormation ava	ilable.					
Respiratory sens	sitization	: No inf	ormation avai	ilable.					
Sympto		-	ysical, chemi		-				
Oral exposure:	ι	unconscious	of great on ness and alcol y occur. Repe	nol poisonir	ng. In ca	se of swallow	/ing great o	quantities,	nausea and
Dermal exposur	Δ.	After prolon cracking of sl	ged or repea kin.	ated exposi	ure syr	nptoms may	include:	defatting,	dryness and
Inhalation expos		nhalation of membranes.	great quantit	ies may caus	se dizziı	ness, euphori	a and mild	irritation	of the mucou
Eye exposure:	١	May cause iri	ritation and re	edness.					
:									
Repeat	ed dose	toxicity (sub	acute, subchr	onic, chroni	ic)				
		Dose	Exposure time	Species		Method	Evaluat	ion	Note
Subacute oral	No i availa	nformation ble	No information available	No informati available	ion	No information available	No info availab	ormation le	-



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Trading name:		PICRIC ACID IN ACETONE, SOLUTION						
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Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

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



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Trading name: PICRIC ACID IN ACETONE, SOLUTION Product code: PKA-OT-X** Revision date: 23 Dec 2022 Version: Mutagenicity <i>in vitro</i> : Based on available data, the classification criteria are not me Genotoxicity: Based on available data, the classification criteria are not me Mutagenicity <i>in vivo</i> : Based on available data, the classification criteria are not me Germ cell mutagenicity: Based on available data, the classification criteria are not me Germ cell mutagenicity: Based on available data, the classification criteria are not me Reproductive toxicity: Based on available data, the classification criteria are not me Summary of evaluation of the CMR properties: Based on available data, the classification criteria are not me Retromation on other hazards: 11.2 Information on other hazards: Information on other hazards: Information on other hazards: 11.2.1 Endocrine disrupting properties: Intervention of the substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Pelegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Intervention: 11.2.2 Other information: -							Page IT OF I7			
Mutagenicity in vitro: Based on available data, the classification criteria are not me Genotoxicity: Based on available data, the classification criteria are not me Mutagenicity in vivo: Based on available data, the classification criteria are not me Germ cell mutagenicity: Based on available data, the classification criteria are not me Germ cell mutagenicity: Based on available data, the classification criteria are not me Reproductive toxicity: Based on available data, the classification criteria are not me Summary of evaluation of the CMR properties: Based on available data, the classification criteria are met. 11.2 Information on other hazards: 11.2.1 Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	Tradin	g name:		PICRIC	CACID IN A	CETONE, SOLUTION	-			
Genotoxicity: Based on available data, the classification criteria are not me Mutagenicity in vivo: Based on available data, the classification criteria are not me Germ cell mutagenicity: Based on available data, the classification criteria are not me Reproductive toxicity: Based on available data, the classification criteria are not me Summary of evaluation of the CMR properties: Based on available data, the classification criteria are not me 11.2 Information on other hazards: 11.2.1 Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	Produc	ct code:	РКА-ОТ-Х**	Revis	Revision date: 23 Dec 2022 Version: 6					
11.2.1. Endocrine disrupting properties: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.		Genotoxia Mutageni Germ cell Reproduc	city: icity <i>in vivo</i> : mutagenicity: itive toxicity: of evaluation of	Ba Ba Ba Ba	ased on availa ased on availa ased on availa ased on availa Based on a	ble data, the classification ble data, the classification ble data, the classification ble data, the classification	on criteria are not i on criteria are not i on criteria are not i on criteria are not i	met. met. met. met.		
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	11.2	Informatio	on on other hazards:							
components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	11.2.1.									
11.2.2. Other information: -	112.1.	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								
-	11.2.2.		ormation:		I					
		-								

SECTION 12. Ecologie	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	golden orf	No information available	6.210 mg/l (acetone)	-
Crustacea:	EC ₅₀	48 hours	daphnia magna	No information available	8.800 mg/l (acetone)	-
Algae/aquatic plants	IC ₅₀	4 days	algae	No information available	530 mg/l (acetone)	-
Other organisms	_	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-



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Trading name	.				RIC ACID IN A				Page 1	2 01 17	
Product code		KA-OT-X**			evision date:		Dec 202		Vers	ion	6
Product code	. P	KA-UT-X		R	evision date.	23 L	Jec 202	.2	vers	sion.	0
Crustacea:		EC ₅₀	48 hours		No information available	intormation		No inform available	No information available		
Algae/aquatic	plants	IC ₅₀	72 hours		No information available	No information available		No information available		-	
Other organism	ns	-	-	-		-		-		-	
		nd degradal	oility								
Abioti	c degra					F	al			1	
	Degradation half-lives		NI	Method		aluation		r	Vote		
Marine water	arine water No information available			information lable	No info availabl		-				
Fresh water	h water No information available		available		information lable	No info availabl		on -			
Air	No information available		available		information lable		No information available				
Soil	No ir	nformation a	available		information lable	No info availabl		on _			
Biode	gradatio	on									
% Degradati	-	Time (days)		Method	Ev	aluation		١	Vote	
No informatior available		No in available	formation		information ilable	No info availabl			inform ailable	ation	
		ive potentia									
	1	er partition o						_			
Value	Con	centration	рН	°C	Method		Evalua	tion		Note	
			-	-	-			-			
Bioco	ncentra	tion factor (BCF)								
Value		Speci			Method	E	valuatio	n		Note	
-	N av	•	formation		nformation lable		ormatic				



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

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Trading	g name:			PICRI) IN AC	ETONE	, SOL	UTION	J			
Product code:		PKA-OT-X**		Revi	Revision date: 23 D		Dec 2022		Version:		6		
	Chronic	ecotoxi	city	ĩ	-		1						
	Value		Dose	Exposure time	Spe	ecies	Metł	nod	Eva	luatior	١	Note	
Chronic	toxicity o	n fish	LC ₅₀	No information available	information information		No inform availab		No n information available		. –		
	toxicity o ea (<i>Daphn</i>		EC ₅₀	No information available	No inforr availa	mation able	No inform availab		No inforr availa	mation able			
		,											
12.4	Mobility												
		•		on in environm	nental c	compart	ments:						
	Surface t		available										
	Value		°C	Concentra	ntion		Metho	hd			Note	.	
	No informat	1	No nformation	No informa available			ormatio					<u>.</u>	
	available	đ	available	available		availat	Die						
	Adsorpti	on / de	sorption										
Transpo	ort	,	coefficient 's constant	log Kow	E١	vaporati	on rate	ſ	Metho	d	I	Note	
Soil-wa	tor	No availab	information le						lo information vailable		-		
Water-air No availab		information le	No information available				No information available		-				
Soil-air No in available		information le			o inform vailable			lo information vailable		-			
12.5		· UDT -	nd vPvB asses	cmont									



SAFETY DATA SHEET

		1			Page 14 of 17				
Tradir	ng name:		PICRIC ACID IN A	CETONE, SOLUTION	J				
Produ	ct code:	РКА-ОТ-Х**	Revision date:	23 Dec 2022	Version:	6			
10.0									
12.6.		e disrupting propertie		• • • • •	·				
	according	to REACH Article 57	ot contain components cor (f) or Commission Delegate vels of 0.1% or higher.						
12.7.	Other adv	verse effects							
			sidues reach sewer system,	waterways and soil.					
	1	·							
SECTIO	ON 13. Disp	osal considerations							
13.1	Waste t	reatment methods							
13.1.1.	Product	Product/Packaging disposal:							
	Submit Protecti		gal person authorized by th	ne Ministry of Environm	nental and Nature				
13.1.2.	Waste o	codes/waste designati	ions according to Law:						
	Packagi	ing that contains resid	lual hazardous substances	or is contaminated wit	h hazardous substar	nces			
13.1.3.	Waste t	reatment – relevant ir	nformation:						
	No info	rmation available							
13.1.4.	Sewage	e disposal – relevant ir	nformation:						
	Waste r	nust not be disposed	of into the sewage system						
13.1.5.		disposal recommendations: ot dispose of the product's remains into the sewage system. Submit the remains to the collectors							
	authoriz	zed by the ministry in	ict's remains into the sewa i charge. Do not dispose o ors authorized by the mini	f the packaging into th	ne sewage system. S	ubm			
	Dalawan								
13.1.6.	Relevan	t Community provisio	ons:						

SECTION 14 TRANSPORT INFORMATION

Transporting/shipment by road (Transporting/shipment by road (ADR)					
UN number:	1090					
UN proper shipping name:	Acetone					
Transport hazard class(es):	3					



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Product code:	PKA-OT-X**	Revision date:	23 Dec 2022	Version:	6
	1	·	1		
Packing group:		II			
Environmentally ha	azardous:	-			
Special precautions	s for user:	-			
Transporti	ing/shipment by rail (R	ID)			
UN number:		1090			
UN proper shipping	g name:	Acetone			
Transport hazard c	lass(es):	3			
Packing group:		11			
Environmentally ha	azardous:	-			
Special precautions	s for user:	-			
Inland wat	terway transport (ADN)				
UN number:		1090			
UN proper shipping	g name:	Acetone			
Transport hazard c	lass(es):	3			
Packing group:		11			
Environmentally ha	azardous:	-			
Special precautions	s for user:	-			
Transporti	ing/shipment by sea (IN	MDG)			
UN number:		1090			
UN proper shipping	g name:	Acetone			
Transport hazard c	lass(es):	3			
Packing group:		11			
Environmentally ha	azardous:	-			
Special precautions	s for user:	-			
Transport in bulk a of MARPOL 73/78	according to Annex II and the IBC code:	-			
Transporti	ing/shipment by air (IC	AO-TI/IATA-DGR)			
UN number:		1090			
UN proper shipping	g name:	Acetone			
Transport hazard c	lass(es):	3			
Packing group:		11			
Environmentally ha	azardous:	-			
Special precautions	s for user:	-			
Further information	n: -				



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Trading name:		PICRIC ACID IN ACI	TONE, SOLUTION		
Product code:	PKA-OT-X**	Revision date:	23 Dec 2022	Version:	6

15.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/91 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; 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 organi solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and 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 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; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessme	ent
19.2	None	

SECTION 16. Other information					
16.1 Indi	cation of changes:	-			



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Trading name:			PICRIC ACID IN ACETONE, SOLUTION					
Produ	Product code: PKA-OT-X**		Revision date:	23 Dec 2022	Version:	6		
				:	1	i		
16.2	Abbreviations and acronyms:		 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 					
16.3.	Key litera source of	ture references and data:	-					
16.4.	16.4. Classification and procedure 1272/2008 (CLP)		used to derive the classificati	on for mixture accordin	g to Regulation (EC)			
Classifi	cation		Classification procedure					
_			-					
16.5.	Relevant	H statements (num	per and full text)					
	ź	201	Explosive; mass explosion ha	azard.				
	H: 2	225	Highly flammable liquid and	l vapor.				
		301+311+331	Toxic if swallowed, in contac	t with skin and if inhale	d.			
		319	Causes serious eye irritation					
		336	May cause drowsiness or dia	zziness.				
	((EUH066)	Repeated exposure may cau	ise skin dryness or crack	king.			
16.6.	Training a	advice:	-					
16.7.	Further in	oformation:	** "X" in the product code m the product) We are not responsible for c					
	Further mormation.		instructions for use or impro material safety data sheet.	•				

ANNEX: Exposure scenario resulting to chemical safety assessment

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