

Page 1 of 18

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 i	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:	-		



Page 2 of 18

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

	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		



Page 3 of 18

Trading name:	G	RAM CRYSTAL VIOLET	1% SOLUTION		
Product code:	GC1-OT-X**	Date of compilation:	21 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:	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.			



Page 4 of 18

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

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	



Page 5 of 18

						Page 5 of	18		
Tradir	Trading name: GRAM CR			ET 1% SOLUTION					
Product code: GC1-OT-X		GC1-OT-X**	Date of	compilation:	21 Dec 2022	Version:	5		
	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	



Page 6 of 18

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

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)		



Page 7 of 18

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

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		



Page 8 of 18

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

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					



Page 9 of 18

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

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	Exposure time	Results	
Oral:		-	ra	t	LD ₅₀)	-	10.470 r	ng/kg (ethanol)
Derma	Dermal: -		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	effects			Target organ		Note
Oral: No information a			nation avai	lable No info		No info	ormation 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				



Page 10 of 18

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

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 informatic 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



Page 11 of 18

Trading	name:		GRAM	CRYSTAL VIOL	ET 1% SOLUTION						
Product	code:	GC1-OT-X**	Date	Date of compilation: 21 Dec 202		Version:	5				
Subacute	dermal	No information	available	No	information available	-					
Subacute	inhalatior	No information	available	No	information available	-					
Subchron	bchronic oral No information availab			No	information available	-					
Subchron	ubchronic dermal No information available			No	information available	-					
Subchron	nic inhalati	on No information	available	No	information available	-					
Chronic c	oral	No information	available	No	information available	-					
Chronic d	lermal	No information	available	No	information available	-					
Chronic i	hronic inhalation No information availab			No	information available	-					
		ts (carcinogenicity; mu		-	-						
	Carcinoge				data, the classification						
	_	city <i>in vitro</i> :		Based on available data, the classification criteria are not met.							
(Genotoxic	ity:	Ва	Based on available data, the classification criteria are not met.							
	-	tity <i>in vivo</i> :	Ва	Based on available data, the classification criteria are not met.							
(Germ cell	mutagenicity:	Ва	Based on available data, the classification criteria are not met.							
I	Reproduct	ive toxicity:	Ва	Based on available data, the classification criteria are not met.							
				1							
	Summary properties		the CMR	Based on avail met.	able data, the classific	cation criteria a	re not				
11.2	Informatio	n on other hazards:									
11.2.1.	Endocrine	disrupting properties:									
		n endocrine disrupting human health.	g properties								
11.2.2.	Other info	rmations:									
-	_										

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		
Product code:	GC	1-OT-X**		Date of con	npila	tion:	21 Dec 20	22	Version:	5
								1		
Crustacea:	EC ₅₀	48 hours		Daphnia magna (Water 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		No information wailable			-	-		
Crustacea:	EC ₅₀	48 hours		No information available			-	-		
Algae/aquatic plants	IC ₅₀	72 hours		No information available			-	-		
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 information			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	n	No inf availat	ormation ble	-		
	radation							1		
% Degradatio		Time (days)		Method			aluation		Note	
94% (ethanol)	No av	o inform ailable	ation			No information available		readi	y biodegradable	!
85% (phenol)	14	days		() + (1) +		No inf availat	ormation ble	readi	y biodegradable	;

12.3 Bioaccumulative potential



Page 13 of 18

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	information ir		No infor availa	mation able	No infor avail	mation able	No infor avail	mation able	-	
	toxicity ea (<i>Daphi</i>		EC ₅₀	information i		No infor availa	mation able	No infor avail	mation able	No information 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 No information information available available			o informa ailable	ation	No inf availat		ion		-			
	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	-	



Page 14 of 18

		1				Page 14 of	10
Trading	g name:		GRAM C	RYSTAL VIOLET	1% SOLUTION		
Produc	t code:	GC1-OT-X**	Date of	f compilation:	21 Dec 2022	Version:	5
			T	T			
Water-a	air No avail	information lable	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.			



Page 15 of 18

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



Page 16 of 18

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

Packing group:	cking group: III			
Environmentally hazard	nmentally hazardous: -			
Special precautions for	ons for user: -			
Further information.	•	Provision 144 – An aqueous solution containing 24% or less alcohol by subject to classification.		
•		cial Provision A58 - An aqueous solution containing 24% or less alcohol by not subject to classification.		

	DN 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:	-		
	Nestrictions: Regulation (EC) No 1907/2006 of the European Parliament and of the 0 18 December 2006 concerning the Registration, Evaluation, Authoris: Restriction of Chemicals (REACH), establishing a European Chemical: amending Directive 1999/45/EC and repealing Council Regulation (EEC) I and Commission Regulation (EC) No 1488/94 as well as Council Directive 7 and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/27 Directive 2004/42/CE of the European Parliament and of the Council of 21 on the limitation of emissions of volatile organic compounds due to the use solvents in certain paints and varnishes and vehicle refinishing products and Directive 1999/13/EC; Other EU regulations: Council Directive 98/24/EC of 7 April 1998 on the protection of the health of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Cou December 2008 on classification, labelling and packaging of substances and amending and repealing Directives 67/548/EEC and 1999/45/EC, and Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use 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 an on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act		
15.2	Chemical safety assessment			
	None			



Page 17 of 18

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.	Key literature references and source of data:		s and	-		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classifi -	catior	1	C -	lassification procedure		
16.5.	Relevant H statements (number and full text)					
	H225 High		High	ly flammable liquid and vapor.		
		H226	Flammable liquid and vapor.			
		H301	Toxic	oxic if swallowed.		
		H302	Harm	Harmful if swallowed.		
	H311 H314		Toxic in contact with skin.			
			Caus	Causes severe skin burns and eye damage.		
	H:	H318		Causes serious eye damage.		
		H331	Toxic	if inhaled.		
		H341	Susp	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.		
				ful to aquatic life with long lasting effects.		
16.6.	Training advice: -		-			



_

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

Page 18 of 18

Trading name:		GRAM CRYSTAL VIOLET 1% SOLUTION						
Product code:		GC1-OT-X**	Date of compilation:	21 Dec 2022	Version:	5		
16.7.	.7. Further information:		** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.					

ANNEX: Exposure scenario resulting to chemical safety assessment