

Page 1 of 18

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

1.1	Product identifier	ON 1: Identification of the substance/mixture and of the company/undertaking Product identifier			
	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 against: device, registered at the Agency for Medicinal Pro				duct is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes.	
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnos	t Ltd.	
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	<u>msds@t</u>	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:	Other information:		-	

N 2. Hazards identification				
Classification of the substance or r	nixture			
Classification according to Regulat	tion (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				
-				
l text of Hazard- and EU Hazard-sta	tements: 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			



Page 2 of 18

Trading name:	GRAM DECOLORIZER 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 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	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



Page 3 of 18

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 so water spray. Use water spray to dis	elf-contained breathing apparatus. Cool the fire affected containers with sipate alcohol vapors.			
5.4	Additional information				



-

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

Page 4 of 18

Trading name:	GRAM DECOLORIZER 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:			
	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. 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 of	on safe handling.		
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal information.			

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



Page 5 of 18

Trading name: Product code:			GRAM [DECOLOR	IZER SOLUTION 2			
_		GD2-OT-X**	GD2-OT-X** Revision date:			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 ar equipment.			
	Measures to prevent aerosol and dust generati Measures to protect the environment:			n:	Ensure adequate ve	entilation.		
					Prevent spilling into and waterways.	o the sewage syste	m	
	Other measures:				Protect against elec	ctrostatic charges.		
7.1.2.	Advice or	n general occupational	hygiene:					
	Do not ea	at, drink or smoke in th	e workspace. Th	oroughly v	vash hands after work a	nd before eating.		
7.2	Conditions for safe storage, including any incompatibilities							
	Technical	echnical measures and storage 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:		Manufa	cturer's original packag	ing.		
	Requirem	ents for storage rooms	and vessels:	Keep av tightly o	vay from food and drink losed.	k. Keep the containers		
	Advices for storage equipment: Advices for storage equipment: The storage must be made of hard materia be resistant to chemicals. There must be directly leads into sewage system. Se ventilation.			e must be no drai	n that			
	Further in	Further information on storage conditions:			Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).			
7.3	Specific 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				



Page 6 of 18

Trading name:			GRAM DECOLORIZER SOLUTION 2					
Product code:	GD2-0	DT-X**	Revision date:	23 Dec 2022	Version:	5		
Substance name:	-							
EC No:	-	CAS No:	-					
DNEI								

DINEL							
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 pa	rameters: solubility,	flammability, corros	sivity: -				
		Cons					

	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	PNFC						

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)			
resh water reshwater sediments larine water larine sediments bod chain licroorganisms in sewage treatment bil (agricultural)	1.06 mg/kg (acetone)			
Maying and income	2.9 mg/kg (ethanol)			
arine water arine sediments ood chain	3.04 mg/kg (acetone)			
Food chain	380-720 mg/kg (ethanol)			
	580 mg/l (ethanol)			
Microorganisms in sewage treatment	100 mg/l (acetone)			
	0.63 mg/kg (ethanol)			
arine sediments ood chain licroorganisms in sewage treatment	33.3 mg/kg (acetone)			
Air	no information available			



Page 7 of 18

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

8.2	Exposure controls		Exposure controls				
8.2.1.	Appropriate engineering controls						
	Substance/mixture related measu prevent exposure during identifie		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 (E 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:	concer in the contac	e of normal usage and ventilation, it is not necessary. If htration of ethyl alcohol exceeds occupational exposure limits air, use a self-contained breathing apparatus. For short t and if the oxygen content of the air is greater than 18 %, use ective 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	Section 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				



Page 8 of 18

5

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

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.		



Page 9 of 18

Trading name:		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 /LC ₅₀ or ATE _{mix}		Exposure time		Results
Oral:	-	rat	LD	50	-		7.060 mg/kg (ethanol) 5.800 mg/kg (acetone)
Dermal:	-	rabbit	LDs	50	-	>20.000 mg (ethanol) 20.000 mg/ (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 information available			-	
Dermal:	No informati	on available	No information available			-	
Inhalation:	Narcotic effe	cts	No information available			May cause drowsiness or dizziness.	
Aspira	tion hazard:	1	No information	available.			
Irritatio	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					



Page 10 of 18

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

Cumeta	me related to the al	aveical chancie	al and toyical	nical characterist	icc					
Oral exposure:	Absorption unconscious	ated 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 vomiting may occur. Repeated or prolonged exposure may lead to liver cirrhosis.								
Dermal exposure	· ·	After prolonged or repeated exposure symptoms may include: defatting, dryness and cracking of skin.								
Inhalation expos	ure: Inhalation of membranes.	Inhalation of great quantities may cause dizziness, euphoria and mild irritation of the mucous membranes.								
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	_				



Γ

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

Page 11 of 18

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	c oral	No information available		No information available	-			
Chronic	c dermal	No information available		No information available	-			
Chronic	inhalation	No information available		No information available	-			
	:							
	CMR effects (c	arcinogenicity; mutagenicit	y; reproductive	toxicity)				
	Carcinogenicit	y:	Based on available data, the classification criteria are not met.					
	Mutagenicity i	n vitro:	Based on avai	lable data, the classification c	riteria are not met.			
	Genotoxicity:		Based on avai	lable data, the classification c	riteria are not met.			
	Mutagenicity i	n vivo:	Based on available data, the classification criteria are not met.					
	Germ cell muta	agenicity:	Based on avai	lable data, the classification c	riteria are not met.			
	Reproductive t	oxicity:	Based on avai	lable data, the classification c	riteria are not met.			
	Summary of properties:	evaluation of the CN	MR Based on met.	available data, the classifica	ation criteria are no			
11 7	Information of							
11.2		other hazards:						
11.2.1.		upting properties:						
	components c disrupting pro Article 57(f) regulation (EU Regulation (EU higher.	e/mixture does not conta onsidered to have endocri operties according to REA or Commission Delegat 0 2017/2100 or Commissi 0 2018/605 at levels of 0.1%	ine CH ced on					
	Other informat							



Page 12 of 18

Trading name:		GRAM DECOLORIZER 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	8.140 mg/l /48 h (ethanol) 6.210 mg/l (acetone)		-
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:) mg/l / 7d thanol) 30 mg/l cetone)	-
Other organism	IS	-	-	-	-	-		-
Chronic (long-te toxicity	Chronic (long-term) toxicity		Exposur time	e Species	Method	Evaluation		Note
Fish	Fish		96 hours	No information available	No information available	No information available		-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No information available		-
Algae/aquatic p	ants	IC ₅₀	72 hours	No information available	No information available	No information available		-
Other organism	IS	-	-	-	-	-		-
		nd degradab	ility					
Abiotic		idation	16 1:		·		•	1-4-
Degradation half-live		ait-lives	Method	Evaluatio		<u> </u>	lote	
Marine water No information available		vailable	No information available	No informatio available	[]	-		
Fresh water No inform		nformation a	vailable	No information available	No informatio available	n	-	
Air	No ir	nformation a	vailable	No information available	No information			
Soil	No ir	nformation a	vailable	No information available	No informatio available	No information		



Page 13 of 18

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

	Biodeg	radati	on								
% D	egradatio	n	Time (days)	Ν	/lethod		Evaluatio	n		Note
No info availat	ormation ble		No in available	formation	No inf availat	ormation ole	No ir avail	nformatior able	ו	No info availab	ormation le
12.3	Віоасси	umulat	tive potentia	l							
	Octano	l-wate	er partition o	oefficient (log Kow	()					
V	alue	Con	centration	рН	°C	Method		Evalua	ation		Note
-		-		-	-	-		-		-	
		centra	tion factor (
	Value		Speci		Meth			Evaluatio			Note
-		N av	o in [.] vailable	formation		No information available		information ilable	on	-	
	Chronie	c ecoto	oxicity								
	Value		Dos		osure ime	Species	N	/lethod	Eval	uation	Note
Chroni	ic toxicity	on fisł	n LC ₅₀	No infor avail	mation able	No information available		ormation ailable	No inform availal		-
Chronic toxicity on crustacea (<i>Daphnia</i>)		No infor avail	mation able	No information available		ormation ailable	No inform availa		-		
			1			1	I		1		1
12.4	Mobilit	y in sc	bil								
	Known	or pre	edicted distr	ibution in e	environn	nental compar	tmen	ts:			
	No info	ormatio	on available								
	Surface	e tensio									
	Val	ue	°C	C	oncentra	ation	Me	ethod			Note



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

Page 14 of 18

Trading name: GRAM DECOLORIZER SOLUTION 2																
Produc	t code:	Ģ	GD2-OT-X**		Revisior	n da	ate:	23 D	ec 2022		Version:	5				
	No informa available		No information available No informatio available			tion No information										
	Adsorpt	ion /	desorption													
Transpo	Transport A/D coefficient Henry's constant		_	log	ı Kow	Ev	aporati	on rate	Meth	od	Note					
Soil-wat	ter	No avai	information ilable				o inform ailable	nation	No inform available	nation	-					
Water-a	air	No avai	information ilable	-			o inform ailable	nation	No inform available	nation	-					
Soil-air		No avai	information ilable			o inform ailable	nation	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 cc nula	onsidere Itive (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												
	accordir	ng to	ce/mixture does r REACH Article 57 EU) 2018/605 at l	7(f) or C	ommissior	n De	elegated									
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.							
						<u> </u>	,,									
SECTIO	N 13. Dis	sposa	al considerations	s												
13.1	Waste	trea	tment methods													
13.1.1.		it for	ackaging disposal disposal to the le		son autho	rize	d by the	e Ministry	y of Enviror	imental	and Nature					
	1															
13.1.2.	Waste	code	es/waste designa	tions ac	cording to	Lav	N:									
	Packa	ging	that contains res	idual ha	zardous su	ıbst	ances c	or is cont	aminated w	Packaging that contains residual hazardous substances or is contaminated with hazardous substances						



Page 15 of 18

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

13.1.3.	Waste treatment – releva	nt 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 recommen						
	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.	13.1.6. Relevant Community provisions:						
Disposal must be made according to official regulations.							
SECTIO	N 14 TRANSPORT INFORM	IATION					
	Transporting/shipment by	road (ADR)					
UN num	ber:	1170					
UN prop	er shipping name:	Ethanol solution					
Transpo	rt hazard class(es):	3					
Packing	group:	II					
Environr	nentally hazardous:	-					
Special	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	precautions for user:	-					
	Inland waterway transport	(ADN)					
UN num	ber:	1170					
UN prop	er shipping name:	Ethanol solution					
Transpo	rt hazard class(es):	3					
Packing	group:	II					
Environr	nentally hazardous:	-					
Special I	precautions for user:	-					



Page 16 of 18

Trading name:		GRAM DECOLORIZER 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:	П
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:	II
Environmentally hazardous:	-
Special precautions for user:	-

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



Page 17 of 18

Trading name:			GRAM DECOLORIZER SOLUTION 2				
Produ	ct code:	GD2-OT-X**	Revision date:	23 Dec 2022	Version:	5	
		regulations:	18 December 2006 concerr Restriction of Chemicals (F amending Directive 1999/45 and Commission Regulation and Commission Directives 9 Directive 2004/42/CE of the F on the limitation of emissions solvents in certain paints and Directive 1999/13/EC; Council Directive 98/24/EC or of workers from the risks rela Regulation (EC) No 1272/200 December 2008 on classificat amending and repealing D Regulation (EC) No 1907/200 COMMISSION REGULATION Regulation (EC) No 1907/200 concerning the Registration, (REACH).	ncil Directive 98/24/EC of 7 April 1998 on the protection of the health and safety orkers from the risks related to chemical agents at work; alation (EC) No 1272/2008 of the European Parliament and of the Council of 16 ember 2008 on classification, labelling and packaging of substances and mixtures, nding and repealing Directives 67/548/EEC and 1999/45/EC, and amending alation (EC) No 1907/2006; IMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to alation (EC) No 1907/2006 of the European Parliament and of the Council erning the Registration, Evaluation, Authorisation and Restriction of Chemicals			
	Information according 1999 guideline)		/13/EC about limitation of e	missions of volatile orgar	nic compounds (VO	C-	
	National	legislation:	Chemicals Act, Regulation dangerous substances, Or on biological limit values, of waste with a waste cata writing Material safety dat	dinance on occupational Regulation on categories log and list of hazardous	exposure limit value , types and classifica waste, Ordinance o	ation on	
15.2	Chemical	safety assessment					
	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			



Page 18 of 18

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

16.3.	Key literature references and source of data:		-	
16.4.	16.4. Classification and procedure u 1272/2008 (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.	5. Training advice:		-	
			** "X" in the product code marks different volumes (different packagings of the product)	
16.7.	16.7. Further information:		We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX: Exposure scenario resulting to chemical safety assessment