

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

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Trading name:	GRAM LUGOL SOLUTION			
Product code:	GL-OT-X**	Date of compilation: 14 November 2022	Version: 4	

SECTI	ON 1: Identification of	the substanc	e/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	GRAM LUG	OL SOLUTIO	N	
	Chemical name:	-			
	Catalogue number:	GL-OT-X**			
1.2.	Relevant identified us	es of the subs	tance or mi	xture and uses advised against	
	Uses:		Solution f	or use in microbiology for Gram staining.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advi	sed against:	device, re	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	Details of the supplier of the safety data sheet			
	Supplier: Bio		oGnost Ltd.		
	Address:	N	Medjugorska 59, Zagreb		
	Telephone number: +		-385 1 2409997		
	Fax no.: +		+385 1 2404039		
	e-mail of competent p	e-mail of competent person: <u>m</u>		msds@biognost.hr	
	National contact: -				
1.4.	Emergency telephone number				
	National Protection a	nd Rescue Dir	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:	Other information:		-	

SECTIO	ON 2. Hazards identification			
2.1.	Classification of the substance or mixture			
2.1.1.	Classification according to Regula	ation (EC) No 12	272/2008 (CLP)	
	Hazard class and category	y code:		Hazard statements*:
	Not identified as hazardous subs	tance.	-	
2.1.2.	Additional information			
	-			
*For fu	ll text of Hazard- and EU Hazard-st	atements: see S	ection 16	
2.2.	Label elements			
	Product identification:	GRAM LUGO	L SOLUTION	
	Identification number:	-		
	Authorization no.:	-		
	Hazard pictograms:	-		



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	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	<b>Endocrine Disrupting Properties:</b>	
	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	-			

SECTI	ON 4. First aid measures		
4.1.	Description of first aid meas	ures	
	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 ai	der: Treat symptomatically.	
4.2.	Most important symptoms and effects, both acute and delayed		
	Following inhalation:		
	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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	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
4.3.	Indication of any immediate medical attention and special treatment needed		
	-		

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

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



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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 section	ons			
	See Section 7 for information about secure handling.  See Section 8 for information about personal protective equipment.  See Section 13 for information 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 generat	ion:	Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	7.2. Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	ventil	in tightly closed and upright set containers in a well lated storage rooms, and away from sources of heat, ght, and other incompatible substances.			
	Packaging materials:	Manu	ufacturer's original packaging.			
	Requirements for storage rooms and vessels:	•	Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment:	be re	torage must be made of hard material; floors must sistant to chemicals. There must be no drain that tly leads into sewage system. Secure proper lation.			
	Further information on storage conditions:		ot place the unused material in the storage room do not use empty containers for storing other sicals. Do not store with incompatible materials (see on 9).			
7.3.	Specific end use(s)					



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Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8. Exposure c		al protec	tion					
8.1. Control parame	eters		ı					
Substance	CAS			supational exposure limit slues/short term values			Biological limit values	
				opm	mg	mg/m³		
1	-			-		-	No infor	mation available
Substance - name:								
EC No: -	CAS No:	_						
DNEL								
			Inc	lustrial				
Route of exposure:	Acute effect local	effe	Acute		Chronic effect local			Chronic effect systemic
Oral -		-			-			-
Inhalation -					_			-
Dermal -		_			_			-
Critical physical paramet	ers: solubility. fl	ı ammabili	tv. cori	rosivity:	-			
1 7 1	<u>, , , , , , , , , , , , , , , , , , , </u>			nsumer	i_			
	Acute		Acute	te Chronic Chronic				Chronic
Route of exposure:	effect local	effect syst		temic effect lo		cal	effect systemic	
Oral -		-			-			-
Inhalation -		-			-			-
Dermal -		-			-			-
PNEC								
Environmental protectio	n target			PNEC				
Fresh water				No information available				
Freshwater sediments				No information available				
Marine water				No information available				
Marine sediments				No information available				
Food chain				No information available				
Microorganisms in sewa	ge treatment			No information available				
Soil (agricultural)				No information available				



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Air			No information available				
8.2.	Evenosuro controlo						
	Exposure controls  Appropriate engineering controls						
8.2.1.			S				
	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 perfect 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 prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equi	equipment					
8.2.2.1.	Eye and face protection:	I face protection: Safety glasses that stick to face (preventing spl visor.					
8.2.2.2.	Skin protection						
	Hand 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 es (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter f	octive full face mask (EN 136) or half mask (EN 140) equipped with a for organic vapors, type "A" (boiling point >65°C) acording to EN 7) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No inf	formation available				
8.2.3.	Environmental exposure	controls					
	Substance/mixture relate measures to prevent exp		See Section 6				
	Structural measures to preserve:	revent	Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to pr exposure:	event	See Section 6				

#### **SECTION 9. Physical and chemical properties**



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	Value	Method
Physical state:	liquid	No information available
Color:	dark brown	No information available
Odour/odour threshold:	characteristic/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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Acute toxic	ity:					
Route of exposure:	Method	Method Species		Exposure	time	Results
Oral exposure:	No information available	-	LD <sub>50</sub>	-		-
Dermal exposure:	No information available	-	LD <sub>50</sub>	-		-
Inhalation exposure:	No information available	-	LC <sub>50</sub>	_		-
Specific tar	get organ toxicity – si	ngle exposure (	(STOT SE):			
	Specif	ic effects	Target	organ		Note
Oral exposure:	No information	available	No information	on available	-	
Dermal exposure:	No information	available	No information	on available -		
Inhalation exposure:	No information	available	No information available		-	
Irritation ar	nd corrosion:					
·	Exposure time	Species	Evaluation	Method		Note
Skin irritation:	-	-	-			
Eye irritation:	-	-	-	_	•	
Sensitizatio	n					
Dermal exposure:	No information avail	able				
Inhalation exposure:	No information avail	able				
Symptoms	related to the physica	ıl, chemical and	toxicological chara	cteristics		
Oral exposure:	According to our have not been ent	-	cal, physical and to	xicological pr	operties	of the substance
Dermal exposure:	According to our have not been ent	-	cal, physical and to	xicological pr	operties	of the substance
	According to our	findinas chemi	cal, physical and to	xicological pr	operties	of the substance



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Eye exposure:		ng to our findings, t been entirely test	•	ysical and toxicolo	gical properties	of the substance
Reneate	ed dose toxicity	(subacute, subchro	onic chronic	<u> </u>		
Кереше	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No informat available	ion No information available	No informatio available	No n information available	No information available	-
Subacute dermal	No informat available	ion No information available	No informatio available	No information available	No information available	-
Subacute inhalation	No informat available	ion No information available	No informatio available	No information available	No information available	-
Subchronic oral	No informat available	ion No information available	No informatio available	No information available	No information available	-
Subchronic dermal	No informat available	ion No information available	No informatio available	No information available	No information available	-
Subchronic inhalation	No informat available	ion No information available	No informatio available	No information available	No information available	-
Chronic oral	No informat available	ion No information available	No informatio available	No information available	No information available	-
Chronic dermal	No informat available	ion No information available	No informatio available	No n information available	No information available	-
Chronic inhalation	No informat available	ion No information available	No informatio available	No n information available	No information available	-
			/07/	OT DE'		
Specific	target organ to	oxicity – repeated e Specific effects	exposure (STO	OT RE): Target org	ıan	Note
Subacute oral	No info	ormation available		No information ava		
Subacute dermal		ormation available		No information ava		
Subacute inhalat	ion No info	ormation available		No information ava	ilable -	
Subchronic oral	No info	ormation available	1	No information ava	nilable -	



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					rage 10 01	10
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Subchronic dermal	No informati	on available	No ir	nformation available	-	
Subchronic inhalati	on No informati	on available	No ir	nformation available	-	
Chronic oral	No informati	on available	No ir	nformation available	_	
Chronic dermal	No informati	on available	No ir	nformation available	-	
Chronic inhalation	No informati	on available	No ir	nformation available	-	
CMR effects (carcinogenicity; r Carcinogenicity: Mutagenicity in-vitro: Genotoxicity:		mutagenicity; reproductive toxicity)  Current studies on test animals did not indicate carcinogenic effects.  Current <i>in vitro</i> tests did not indicate mutagenic effects.  No information available				
	city <i>in-vivo</i> :	Current <i>in vivo</i> tests did not indicate mutagenic effects.				
	mutagenicity:	No information available				
Reproductive toxicity:		No toxicity on reproductive organs was determined in reproductive organs.				
Summary	of evaluation of the	e CMR properties: -				
11.2						

11.2.	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	No known endocrine disrupting properties that affect human health.
11.2.2.	Other information:
	-

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



Value

Species

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Crustacea:	: G	LC <sub>50</sub>		Date	of compilation:	14	4 Novembei	· 2022	Version	: 4
Fish  Crustacea:  Algae/aquatic p		LC <sub>50</sub>								
			96 hou	rc	No information available		information ilable	No informatio available	n -	
Algae/aquatic ¡		EC <sub>50</sub>	48 hou	rc	No information available		information ilable	No informatio available	n -	
	plants	IC <sub>50</sub>	72 hou	rc	No information available		information ilable	No informatio available	n -	
Other organism	ns	-	-		_	_		-	-	
12.2. Persist	tence a	nd degradal	bility							
Abioti	c degra	adation								
	Deg	radation ha	lf-lives		Method		E۱	aluation		Note
Marine water	No inf	o information available		No information available		No information available		e	-	
Fresh water	No inf	ormation av	ailable	nformation availa	ble	No informa	tion availabl	e	-	
Air	No inf	ormation av	ailable	No information available No inform			No informa	tion availabl	e	-
Soil	No inf	ormation av	ailable	No i	nformation availa	ble	No informa	tion availabl	e	-
Biode	gradati	on								
% Degradation	ı	Time (day	s)		Method		Evaluation		Not	e
No information available		informilable		No information available					No information available	
12.3. Bioacc	cumulat	tive potentia	nl							
Octan	ol-wate	er partition o	oefficien	t (log l	(ow)					
Value	Conce	entration	рН	°C	Method		Evaluat	ion	No	te
_	No in vailable	nformation e	-	-	No information available	on	No informa available	tion -		

Method

Evaluation

Note



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No information No i available available		inform ole	ation No information available			No information available		No information available	
Chronic e	cotovicit								
Chionic e	COLOXICIL	.y	_						
Value		Dose	Expo tim		Species	Method	Eva	aluation	Note
Chronic toxicity or	n fish	LC <sub>50</sub>	No inform availab		No information available	No information available	No infori availa	mation able	-
Chronic toxicity on crustacea ( <i>Daphnia</i> ) EC <sub>50</sub>		No inform availab		No information available	No information available	No infori availa	mation able	_	

12.4.	Mobility in so	il							
	Known or pre	Known or predicted distribution in environmental compartments:							
	No information	No information available							
	Surface tension:								
	Value	°C	Concentration	Method	Note				
	No information available	No information available	No information available	No information available	-				

Adsorption / des	carntian

Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-water	No information available	No information available	No information available	No information available	-
Water-air	No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-

#### 12.5. Results of PBT and vPvB assessment

No information available



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12.6.	Endocrine disrupting properties							
	No known endocrine disrupting properties that affect the environment.							
12.7.	Other adverse effects	Other adverse effects						
	No adverse effects are expected.							
SECTION	N 13. Disposal considerations							
13.1.	Waste treatment methods							
13.1.1.	Product/Packaging disposal:							
	Submit for disposal to the legal Protection.	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.						
	:							
13.1.2.	Waste codes/waste designations according to Law:							
	No information available							
13.1.3.	Waste treatment – relevant information:							
	No information available							
13.1.4.	Sewage disposal – relevant info	rmation:						
	Waste must not be disposed of into the sewage system.							
13.1.5.	Other disposal recommendation	ns:						
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.							
13.1.6.	Relevant Community provisions:							
	-							
SECTION	N 14. Transport information							
	Transporting/shipment by road (A	ADR)						
UN num	ber:	Not subject to transport regulations.						
UN prop	per shipping name:	-						
Transpoi	rt hazard class(es):	-						



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Packing group:	_	-			
Environmentally ha		-			
Special precautions		-			
<u> </u>	ng/shipment by ra	· · · · · · · · · · · · · · · · · · ·			
UN number:		Not subject to transport	regulations.		
UN proper shipping	g name:	-			
Transport hazard cl	ass(es):	-			
Packing group:		-			
Environmentally has	zardous:	-			
Special precautions	for user:	-			
Inland wat	erway transport (A	DN)			
UN number:		Not subject to transport	regulations.		
UN proper shipping	g name:	-			
Transport hazard cl	ass(es):	-			
Packing group:		-			
Environmentally has	zardous:	-			
Special precautions	for user:	-			
Transporti	ng/shipment by se	a (IMDG)			
UN number:		Not subject to transport	regulations.		
UN proper shipping	g name:	-			
Transport hazard cl	ass(es):	-			
Packing group:		-			
Environmentally has	zardous:	-			
Special precautions	for user:	-			
Transporti	ng/shipment by air	r (ICAO-TI/IATA-DGR)			
UN number:		Not subject to transport	regulations.		
UN proper shipping name:		-			
Transport hazard class(es):		-			
Packing group:		-			
Environmentally hazardous:		-			
Special precautions for user:					



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15.1.	. Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations		
	Authorization and/or restrictions of use		
	Authorizations:	-	
	Restrictions:	-	
	Other EU regulations:	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 199 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	Chemical safety assessment	
	None		

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



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

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Trading name:	GRAM LUGOL SOLUTION		
Product code:	GL-OT-X**	Date of compilation: 14 November 2022	Version: 4

16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  IMDG: International Maritime Code for Dangerous Goods  IATA: International Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent  PBT: Persistent, Bioaccumulative and Toxic  vPvB: very Persistent and very Bioaccumulative	
16.3.	Key literature references and source of data:	-	
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classifi	cation	Classification procedure	
_		-	
16.5.	Relevant H statements (number and full text)		
	H: -	-	
16.6.	Training advice:	-	
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product)  We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

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