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Trading name:	LUGOL'S SOLUTION					
Product code:	LUG-OT-X**	Date of compilation:	14 November 2022	Version: 5		

1.1.	Product identifier		-	and of the company/undertaking		
	Trading name:	LUGOL'S	LUGOL'S SOLUTION			
	Chemical name:	-				
	Catalogue number:	LUG-OT-2				
1.2.	Relevant identified use	es of the su	bstance or mi	xture and uses advised against		
	Uses:		Aqueous	solution of iodine and potassium iodide.		
	Uses advised against:		Only the	dentified uses are advised.		
Reason why uses advised against: medical de		medical d	e product is intended for use only as an <i>in vitro</i> diagnostic dical device, registered at the Agency for Medicinal Products and dical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd			
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039			
	Telephone number:					
	Fax no.:					
	e-mail of competent p	e-mail of competent person: m		<u>msds@biognost.hr</u>		
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection ar	d Rescue D	irectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	tion (EC) No 12	72/2008 (CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	itements: see Se	ection 16		
2.2.	Label elements				
	Product identification:	LUGOL'S SOL	UTION		
	Identification number: -				
	Authorization no.: -				
	Hazard pictograms:	-			



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Ciana a lum	1-					
Signal w	ora:	-				
Hazard s	tatements:	-				
D						

	Precautionary statements: -		
	Supplemetal hazard information (EU):		
2.3.	Other hazards		
	Endocrine Disrupting Properties:		
	No known endocrine disrupting properties.		

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	TON 4. First aid measures				
4.1.	Description of first aid measu				
	General notes:	-			
	Following inhalation:	ventilated area or out f	on out of the contaminated area into a well- for fresh air. If breathing becomes erratic or it oly artificial respiration (other than mouth-to- ohysician.		
	Following skin contact:		clothing. Immediately wash with plenty of nedical assistance if the symptoms of irritation		
	Following eye contact:		of water with the eyelid held wide open using nptoms remain, immediately call a physician.		
	Following ingestion:	water. If spontaneous	g. Make the afflicted person drink a glass of omiting occurs, wash the mouth with water, drink 100-200 ml of water and seek medical		
	Self-protection of the first ai	Treat symptomatically.			
4.2.	Most important symptoms a	fects, both acute and del	ayed		
	Following inhalation:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			



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	Following	ingestion: According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				erties of
4.3.	Indication	of any immediate medical attention and special treatment needed				
	_					

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

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



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6.3.2.	Cleaning	up:	Where possible, the substan material (sand, diatomaceou in tightly closed impermeak ventilated storage rooms un persons authorized by the N Protection. After disposal or materials with water.	us earth, vermiculite). Plac ble containers. Store the su ntil disposal. Submit for di Ministry of Environmental	te the waste mubstance in w isposal to the and Nature	naterial ell legal
6.3.3.	Other info	ormation:	-			
6.4.	Reference	ference to other sections				
		See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment.				

See Section 13 for information about containment.

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



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Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8. Exposur	e contr	ols/persona	l protec	tion				
8.1. Control para	meters			_				
Substance		CAS N			upational exposure limit lues/short term values		Biological limit v	/alues
				p	opm	mg/m ³		
-		-			-	-	No information availa	ble
Substance - name:								
EC No: -		CAS No:	-					
DNEL								
				Ind	ustrial			
Route of exposure:		Acute		Acute		Chron		onic
Noute of exposure.	effe	ect local	effe	ect syst	emic	effect lo	ocal effect s	ystemic
Oral	-		-			-	-	
Inhalation	-		-	-		-	-	
Dermal	-		-			-	-	
Critical physical para	meters: s	solubility, flar	nmabilit	ty, corr	osivity:	-		
				Con	sumer	1		
Route of exposure:		Acute						
	ette	ect local	effect sys		emic	effect lo	ocal effect sy	ystemic
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC					DNICC			
Environmental protec	Lion tar	yet			PNEC			
Fresh water	c				No information available			
Freshwater sediments					No information available			
Marine water Marine sediments					No information available			
Food chain					No information available			
Microorganisms in se	waaa tr	eatment			No information available			
Soil (agricultural)	waye ti	catinelit			No information available No information available			



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Air			No information available				
8.2.	Exposure controls						
8.2.1.	Appropriate engineering	controls	S				
	Substance/mixture related measures to prevent expo during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to pr exposure:	event	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 pro exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equip	oment					
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 160 visor.					
8.2.2.2.	Skin protection						
	Hand protection:		Protective gloves must be according to the EU Directive 2016/425/EEC and standard 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 fo	ctive 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 of	controls					
	Substance/mixture related measures to prevent expo	See Section 6					
	Structural measures to pr exposure:	sures to prevent Use modern equipment.					
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to pro exposure:	event	See Section 6				



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

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

SECTION 11. Toxicological information



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11.1. Information	n on hazard classes as	defined in Regu	lation (EC) No 127	/2/2008			
Acute toxic	ity:						
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure t	ime Results		
Oral exposure:	No information available	-	LD ₅₀	-	-		
Dermal exposure:	No information available	-	LD ₅₀	-	-		
Inhalation exposure:	No information available	-	LC ₅₀	-	-		
Specific tar	get organ toxicity – si	ngle exposure (S	STOT SE):				
	<u> </u>	c effects		organ	Note		
Oral exposure:	No information a	available	No information	-	-		
Dermal exposure:	No information a	available	No information	on available	-		
Inhalation exposure:	No information a	available	No information	No information available -			
Aspiration	hazard:	No inform	mation available				
		i					
Irritation ar	nd corrosion:						
	Exposure time	Species	Evaluation	Method	Note		
Skin irritation:	-	-	-				
Eye irritation:	-	-	-				
Sensitizatio	'n						
Dermal exposure:	No information availa	able					
Inhalation exposure:	No information avail	able					
Symptoms	related to the physica	l, chemical and t	toxicological chara	octeristics			
Oral exposure:	According to our f have not been ent	-	al, physical and to	xicological pro	perties of the substance		
Dermal exposure:	-	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.					
Inhalation exposure	According to our f	-	al, physical and to:	xicological pro	perties of the substance		



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Eye exposure:		-	our findings, en entirely test	•	hysic	al and toxicolog	jical properti	es of the substan
Repeate	ed dose	toxicity (sub	acute, subchro	onic, chroni	c)			
		Dose	Exposure time	Species		Method	Evaluatior	n Note
Subacute oral	No i availa	nformation ble	No information available	No informati available	on	No information available	No informatic available	on -
Subacute dermal	No i availa	nformation ble	No information available	No informati available	on	No information available	No informatic available	on -
Subacute inhalation	No i availa	nformation ble	No information available	No informati available	on	No information available	No informatic available	on -
Subchronic oral	No i availa	nformation ble	No information available	No informati available	on	No information available	No informatic available	on -
Subchronic dermal	No i availa	nformation ble	No information available	No informati available	on	No information available	No informatic available	on -
Subchronic inhalation	No i availa	nformation ble	No information available	No informati available	on	No information available	No informatic available	on -
Chronic oral	No i availa	nformation ble	No information available	No informati available	on	No information available	No informatic available	on -
Chronic dermal	No i availa	nformation ble	No information available	No informati available	on	No information available	No informatic available	on -
Chronic inhalation	No information available		No information available	No informati available	on	No information available	No informatic available	on -
Specific	target	organ tovicit	y – repeated e			ξΕ)·		
Specific	unger		pecific effects			Target orga	an	Note
Subacute oral			tion available		No i	nformation avai		-
Subacute dermal		No informa	ition available				-	
Subacute inhalat	ion	No informa	ition available		No i	nformation avai	ilable	-
Subchronic oral		No informa	ition available		No i	nformation avai	ilable	-



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Subchronic dermal No information			ion available	available No information available				
Subchro	ubchronic inhalation No information		ion available	No information available	-			
Chronic	oral	No informat	ion available	No information available	-			
Chronic	dermal	No informat	ion available	No information available	-			
Chronic	: inhalation	No informat	ion available	No information available	-			
	CMR effe	cts (carcinogenicity;	mutagenicity; repr	oductive toxicity)				
	Carcinoge	enicity:	Current studies	Current studies on test animals did not indicate carcinogenic effects.				
	Mutagenicity in-vitro:		Current in vitr	Current in vitro tests did not indicate mutagenic effects.				
	Genotoxicity:		No information available					
	Mutageni	city <i>in-vivo</i> :	Current in vivo tests did not indicate mutagenic effects.					
	Germ cell	mutagenicity:	No information	No information available				
	Reproductive toxicity:		No toxicity on reproductive organs was determined in reproductivo organs.					
	Summary	of evaluation of th	e CMR properties:	-				
11.0								
11.2.		on on other hazard						
11.2.1.		disrupting propert						
			ing properties that	affect human health.				
11.2.2.	Other info	Other informations:						

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



Value

Species

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

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Fish	Fish LC ₅₀ 96		96 hou	ırs	No information available	No information available		No informat available		
Crustacea: EC ₅₀		EC ₅₀	48 hou	ırs	No information available		information ilable	No informat available		
Algae/aquatic	plants	IC ₅₀	72 hours		No information available		information ilable	No informat available		
Other organis	ms	-	-		-	-		-	-	
	ic degi	and degradal radation					1			
	De	gradation ha	f-lives	es Method			Ev	aluation		Note
Marine water	No ir	nformation av	ailable	No information available					able	-
Fresh water	No ir	nformation av	ailable	No	information availa	ble	No informat	ion availa	able	-
Air		nformation av			information availa		No informat	ion availa	able	-
Soil	No ir	formation av	ailable	No	information availa	ble	No informat	ion availa	able	-
Biode	egradat	tion								
% Degradatio	n	Time (day	s)		Method		Evaluation		Not	te
No informatio available		o infor vailable			No information available		No information available		No information available	
12.3. Bioac	cumula	ative potentia	ıl							
Octar	nol-wa	ter partition o	oefficien	t (log	Kow)					
Value	Conc	entration	рН	°C	Method		Evaluati	on	N	ote
_	No i availab	nformation le	-	-	No informatic available	n	No informat available	ion	-	

Method

Evaluation

Note



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N											NI . C	
No info availab	ormation le	No avail	inform able	ation	No info availabl		n	No info availab	ormation le		No info availab	ormation ble
	Chronic	ecotoxi	city									
	Value		Dose		osure ime	Spe	ecies	Met	hod	Eva	luation	Note
Chronic	Chronic toxicity on fish LC ₅₀			No infor availa	mation able	No inforr availa	mation able	No inform availab	ation ir	lo nforr vaila	nation ble	-
	c toxicity o ea (<i>Daphr</i>		EC ₅₀	No N information ir		No inforr availa	mation able	No inform availab	ation ir	lo nforr vaila	nation ble	-
			·	•					·			
12.4.	Mobility	ı in soil										
		•	cted distributi	on in e	environm	ental o	compart	ments:				
			available									
	Surface									1		
	Valu		°C	<u> </u>	oncentra	tion		Method			Note	
	No informa available	tion i	No nformation available		informat ilable			nformation lable		-		
							<u>.</u>					
	Adsorpt	ion / de	sorption						1			
Transpo	ort		efficient constant	lc	og Kow	Εv	vaporati	on rate	Metł	nod		Note
Soil-water No available		information	No ir availa	nformatio able		No information available		No information available		on -		
Water-air No inf available		information				No information available		No information - available				
Soil-air No informa available		information	No ir availa	nformatio able		o inform ailable	nation No informati available		natio	on -		
12.5.			nd vPvB asses	sment								
	No information available											



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docrine disrupting properties known endocrine disrupting properties that affect the environment.					
known endocrine disrupting properties that affect the environment.					
her adverse effects					
o adverse effects are expected.					
3. Disposal considerations					
Vaste treatment methods					
Product (Deckaging dispecal:					
Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature					
Protection.					
Vaste codes/waste designations according to Law:					
No information available					
Vaste treatment – relevant information:					
No information available					
Sewage disposal – relevant information:					
Vaste must not be disposed of into the sewage system.					
Other disposal recommendations:					
Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit					
the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where					
ignition may occur.					
. Relevant Community provisions:					
4. Transport information					
ansporting/shipment by road (ADR)					
Not subject to transport regulations.					
shipping name: -					
azard class(es): -					



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	1	2	1					
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	s for user:	-						
Transporti	ng/shipment by rail (F	RID)						
UN number:		Not subject to transport	regulations.					
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Inland wat	erway transport (ADN	I)						
UN number:		Not subject to transport	regulations.					
UN proper shipping	g name:	-						
Transport hazard class(es):		-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Transporti	ng/shipment by sea (l	MDG)						
UN number:		Not subject to transport	regulations.					
UN proper shipping	g name:	-						
Transport hazard cl	ass(es):	-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Transporti	ng/shipment by air (l	CAO-TI/IATA-DGR)						
UN number:		Not subject to transport regulations.						
UN proper shipping name:		-						
Transport hazard class(es):		-						
Packing group:		-						
Environmentally ha	zardous:	-						
Special precautions	for user:	-						
Further information	n: The product i	s not subject to classificatio	n.					



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	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 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)						
	National legislation: Chemicals Act, Regulation on classification, packaging and lab dangerous substances, Ordinance on occupational exposure li and on biological limit values, Regulation on categories, types classification of waste with a waste catalog and list of hazardo Ordinance on writing Material safety data sheet, Transport of Substances Act						
5.2.	Chemical safety assessme	ent					
	None						

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



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

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Tradin	g name:		LUGOL'S SOLUTION					
Produ	ct code:	LUG-OT-X**	Date of compilation: 14 November 2022 Version: 5					
16.2. Abbreviations and acronyms:		ons 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:IMDG:International Maritime Code for Dangerous GoodsIATA:International Air Transport AssociationGHS:Globally Harmonised System of Classification and Labelling of ChemicalsEINECS:European Inventory of Existing Commercial Chemical SubstancesCAS:Chemical Abstracts Service (division of the American Chemical Society)DNEL:Derived No-Effect Level (UK REACH)LC50:Lethal concentration, 50 percentLD50:Lethal dose, 50 percentPBT:Persistent, Bioaccumulative and ToxicvPvB:very Persistent and very Bioaccumulative					
16.3.	Key literat source of	ure references and data:	-					
16.4.	Classificati 1272/2008	•	used to derive the classification for mixture according to Regulation (EC)					
Classifi	cation		Classification procedure					
-			-					
16.5.	Relevant H	l statements (numb	per and full text)					
	H: -		-					
16.6.	Training a	dvice:	-					
16.7.	Further inf	ormation:	** "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 nstructions for use or improper use of the product described in this material safety data sheet.					

ANNEX: Exposure scenario resulting to Chemical safety assessment