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Trading name:	LUGOL'S C SOLUTION			
Product code:	LUGC-OT-X**	Date of compilation:	14 November 2022	Version: 4

1.1.	Product identifier					
	Trading name:	LUGOL'S C	SOLUTION			
	Chemical name:	-				
	Catalogue number:	LUGC-OT-X**				
1.2.	Relevant identified use	s of the subs	tance or mi	xture and uses advised against		
	Uses:		Enhanced iodide.	formulation of aqueous solution of iodine and potassium		
	Uses advised against:		Only the i	dentified uses are advised.		
	Reason why uses advis	ed against:	The product is intended for use only as an <i>in vitro</i> diagnomagainst: medical device, registered at the Agency for Medicinal Product Devices and there is no reason to use it for other			
1.3.	Details of the supplier	of the safety	data sheet			
	Supplier:	Bi	BioGnost Ltd.			
	Address:	М	edjugorska	59, Zagreb		
	Telephone number:	+3	+385 1 2409997			
	Fax no.:	+3	385 1 2404039			
	e-mail of competent po	erson: <u>m</u>	sds@biogn	<u>ost.hr</u>		
	National contact:	-				
1.4.	Emergency telephone	Emergency telephone number				
	National Protection and	d Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	CTION 2. Hazards identification				
2.1.	Classification of the substance or I	Classification of the substance or mixture			
2.1.1.	Classification according to Regula	tion (EC) No 12	272/2008 (CLP)		
	Hazard class and category	code:		Hazard statements*:	
	Not identified as hazardous substa	ance.	-		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	tements: see S	ection 16		
2.2.	Label elements				
	Product identification:	LUGOL'S C SO	OLUTION		
	Identification number: -				
	Authorization no.:	-			



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

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	-	

SECTIO	CTION 4. First aid measures					
4.1.	Description of first aid measure	es				
	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 aide	r: Treat symptomatically.				
4.2.	Most important symptoms and	effects, both acute and delayed				
	FOIIOWING INNAISTION:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				
	FOILOWING SKIN CONTACT.	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				



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	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.			
	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				
	-				

SECTIO	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 (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 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	ns			
	See Section 7 for information about secure handling.				
	See Section 8 for information about personal protective equipment.				
	See Section 13 for inform	nation 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. In not smoke.				
	Measures to prevent aerosol and dust generation		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. T	noroug	hly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any income	lities				
	Technical measures and storage conditions:	ventil	in tightly closed and upright set containers in a well ated storage rooms, and away from sources of heat, pht, and other incompatible substances.			
	Packaging materials:	Manu	facturer's original packaging.			
	Requirements for storage rooms and vessels:		away from food and drink. Keep the containers y closed.			
	Advices for storage equipment:	The storage must be made of hard material; floor be resistant to chemicals. There must be no drain directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	and d	ot place the unused material in the storage room lo not use empty containers for storing other icals. Do not store with incompatible materials (see on 9).			
7.3.	Specific end use(s)					



Soil (agricultural)

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

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Trading name:				L	.UGOL'S	C SOLUTION		
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	endations:				-			
Industrial	sector spe	cific solutio	ns:		-			
SECTION 8. Expos		ols/persona	al protect	tion				
8.1. Control p	arameters		T	Ossu	national	ove ocure limit		
Substance	2	CAS	No			exposure limit term values	Biolo	ogical limit values
			р	pm	mg/m <sup>3</sup>		. g. ca va. a c	
-		-			-	-	No inform	ation available
					<u> </u>			
Substance - name:								
EC No: -		CAS No:	_					
DNEL								
				Ind	ustrial			
Route of exposure:		Acute	Acut			Chron		Chronic
		ect local	effect sys		emic	effect lo	ocal	effect systemic
Oral	-		-			-		-
Inhalation	-		-			-		-
Dermal	-		-			-		-
Critical physical pa	rameters: :	solubility, fla	ammabilit		-	-		
		•			sumer	CI		Cl
Route of exposure	•	Acute ect local	effe	Acute ct syst				Chronic effect systemic
Oral	-	ect rocar	-	et syst	CITIC	-		-
Inhalation	-		_			-		
Dermal	-		_			_		-
PNEC								
Environmental pro	tection tar	get			PNEC			
Fresh water					No infor	mation availabl	е	
Freshwater sedime	nts				No infor	mation availabl	е	
Marine water					No infor	mation availabl	е	
Marine sediments					No infor	mation availabl	е	
Food chain					No infor	mation availabl	e	
Microorganisms in	sewage tr	eatment			No information available			

No information available



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Air			No information available				
8.2.	Cymacyra cantrols						
	Exposure controls						
8.2.1.	Appropriate engineering		3				
	Substance/mixture relate measures to prevent expoduring 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 prexposure:	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 prevent exposure:		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 166) or visor.				
8.2.2.2.	Skin protection						
	Hand protection:		otective gloves must be according to the EU Directive 2016/425/EEC and and and EN 374.  Glove material: nitrile rubber  Glove thickness: ≥0.50 mm  Break through time: >480 min				
	Other skin protection:		ear antistatic clothing made of natural fibers (such as cotton) with long eves (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter f	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	controls					
	Substance/mixture relate measures to prevent expe		See Section 6				
	Structural measures to prevent exposure:		Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to preexposure:	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		
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		

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	Species	Effective Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure t	ime Result	ts	
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	-			
Inhalation exposure:	No information	available	No information available -				
Aspiration I	nazard: nd corrosion:	No info	rmation available				
i	Exposure time	Species	Evaluation	Method	Note		
Skin irritation:	-	-	-				
Eye irritation:	-	-	-				
Sensitizatio	n						
Dermal exposure:	No information avail	able					
Inhalation	No information avail	able					
exposure:							
•	related to the physica	ıl, chemical and	toxicological chara	octeristics			
Symptoms		findings, chemic			perties of the subs	tanc	
	According to our have not been en	findings, chemic tirely tested. findings, chemic	cal, physical and to	xicological pro	perties of the subs		



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Eye exposure:		_	our findings, en entirely test	•	hysica	al and toxicolog	gical propert	ies o	f the substanc
1	·								
Repeate	ed dose tox	cicity (sub	acute, subchro	onic, chroni	c)				
	Do	se	Exposure time	Species		Method	Evaluatio	n	Note
Subacute oral	No info available	rmation	No information available	No informati available	on	No information available	No information available	on	-
Subacute dermal	No info available	rmation	No information available	No informati available	on	No information available	No information available	on	-
Subacute inhalation	No information available		No information available	No informati available	No		No information available		-
Subchronic oral	oral No information available		No information available	No informati available	No information available		No information available		-
Subchronic dermal	No information available		No information available	No information available		No information available	No information available	on	-
Subchronic inhalation	No info available	rmation	No information available	No informati available	on	No information available	No information available	on	-
Chronic oral	No info available	rmation	No information available	No informati available	on	No information available	No information	on	-
Chronic dermal	No info available	rmation	No information available	No informati available	on	No information available	No information	on	-
Chronic inhalation			No information available	No information available		No information available	No information available	on	-
				(6)	TOT 5				
Specific	target org		y – repeated e	xposure (S	IOIR				NI-+-
			pecific effects		Target organ				Note
Subacute oral Subacute dermal			ation available		No information available  No information available		-		
Subacute inhalat			ation available			nformation ava		_	
Subchronic oral			ation available			nformation ava		_	



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	NI · · · · · · · · · · · · · · · · · ·							
Subchronic dermal No information		on available No	information available	-				
Subchronic inhalat	ion No information	on available No	information available	-				
Chronic oral No information		on available No	information available	-				
Chronic dermal No information		on available No	vailable No information available					
Chronic inhalation No information		on available No	n available No information available					
	·	·		:				
CMR effec	cts (carcinogenicity;	mutagenicity; reproductive	toxicity)					
Carcinoge	nicity:	Current studies on test animals did not indicate carcinogenic effects						
Mutageni	city <i>in-vitro:</i>	Current in vitro tests	Current in vitro tests did not indicate mutagenic effects.					
Genotoxio	ity:	No information available						
Mutageni	city <i>in-vivo</i> :	Current in vivo tests did not indicate mutagenic effects.						
Germ cell	mutagenicity:	No information availab	e					
Reproduc	tive toxicity:	No toxicity on reproc	No toxicity on reproductive organs was determined in reproductivorgans.					

Summary o	f evaluat	tion of the	e CMR pro	perties:

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 informations:
	-

#### **SECTION 12. Ecological information**

#### 12.1. Toxicity

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



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Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	_

# 12.2. Persistence and degradability

Abiotic degradation

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

Biodegra	adation				
% Degradation	Time	e (days)	Method	Evaluation	Note
No information	No	information	No information	No information	No information
available	available		available	available	available

# available available available available available

# 12.3. Bioaccumulative potential

Octanol-water partition coefficient (log Kow)

Value	Concentration	рΗ	°C	Method	Evaluation	Note
-	No information available	-	-	No information available	No information available	-

Bioconcentration factor (BC
-----------------------------

	(= 0.7			
Value	Species	Method	Evaluation	Note



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No information No available		inform	nation No inform available					No information available		No information available		)	
	Claracia												
	Chronic e	ecotoxicit	.y	Fxn	osure								
	Value		Dose		me	Spe	cies	Met	hod	Eva	luation		Note
Chronic	ronic toxicity on fish LC <sub>50</sub>		LC <sub>50</sub>	information in		_	No information available		ation	No inforr availa	nation ble	-	
	c toxicity o ea ( <i>Daphn</i>		EC <sub>50</sub>	No infori availa	mation able	No inform availa	nation ble	No informa availab	ation	No information available		-	
12.4.	Mobility												
			ed distributi	on in e	environm	ental c	ompart	ments:					
	No infor		vailable										
	Surface t					. 1							
	No informat available	No tion information					Method No information available		-	Note -			
	Adsorpti	on / desc	rption										
Transport A/D coefficient Henry's constant		lo	g Kow	Ev	Evaporation		Met	Method		Not	te		
•		formation	No ir availa	nformatio Ible		inform ailable	nation	No infor		ation -			
Soil-wa	avai	Water-air No information available		No information available			No information available		tion No informati available		on -		
	air No		formation		ble	ava	allable		avanabio				
Water-a	air No avai	ilable	formation	availa	formatio	n No	inform	nation	No infor		on -		
	air No avai No avai	ilable ir ilable		availa No ir availa	oformation ble	n No	inform	nation	No infor				



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12.6.	Endocrine disrupting properties
	No known endocrine disrupting properties that affect the environment.
12.7.	Other adverse effects
	No adverse effects are expected.
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	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 information:
	Waste must not be disposed of into the sewage system.
13.1.5.	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.
13.1.6.	Relevant Community provisions:
	-
SECTIO	N 14. Transport information
	Transporting/shipment by road (ADR)
UN num	
	per shipping name: -
Transpo	rt hazard class(es): -



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Packing group:		-			
Environmentally ha	zardous:	-			
Special precautions	for user:	-			
Transporti	ng/shipment by rail	(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 (AD	N)			
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 sea	(IMDG)			
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 (	(ICAO-TI/IATA-DGR)			
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:	-			
Further information	n: The product	is not subject to classificatio	n		



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15.1.	Safety, health and environ	mental 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 (EC) 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 assessmen	nt	
	None		

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



# **SAFETY DATA SHEET** BIOGNOST® According to Regulation (EC) No. 1907/2006

amended by Regulation (EU) No. 2020/878

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Trading name:		LUGOL'S C	SOLUTION	
Product code:	LUGC-OT-X**	Date of compilation:	14 November 2022	Version: 4

		ADD. Accord volatif ou transport international decreases and in the second seco		
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 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classific	cation	Classification procedure		
_		-		
16.5.	Relevant H statements (numb	per 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