

### LUXOL FAST BLUE KIT

The kit contains:

Cresyl Violet, solution Lithium carbonate, Luxol Luxol Fast Blue, solution



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

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Trading name:	CRESYL VIOLET, SOLUTION				
Product code:	CV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

1.1.	Product identifier			
	Trading name:	CRESYL	. VIOLET, SOLUT	TION
	Chemical name:	-		
	Catalogue number:	CV-OT-	-X**	
1.2.	Relevant identified us	es of the s	substance or mi	xture and uses advised against
	Uses:		For use with	Luxol Fast Blue kit.
	Uses advised against:		Only the ide	ntified uses are advised.
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes	
1.3.	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.	
	Address:		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997	
	Fax no.:		+385 1 2404039	
	e-mail of competent	person:	msds@biognost.hr	
	National contact:		-	
1.4.	Emergency telephone number			
	National Protection a	National Protection and Rescue I		112
	Medical information:			+385 1 2348 342
	Other information:			-

SECTIO	ECTION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and category code: Hazard statements*:						
	Not identified as hazardous substa	ance.	-				
2.1.2.	Additional information						
	-						
*For fu	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16				
2.2.	Label elements						
	Product identification:	CRESYL VIOL	ET, SOLUTION				
	Identification number:	_					
	Authorization no.:	_					
	Hazard pictograms:	_					



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	Signal word: -			
	Hazard statements: -			
	Precautionary statements: -			
	Further information: -			
2.3.	Other hazards			
	Endocrine Disrupting Properties:			
	No known endocrine disrupting properties			
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a PBT or a vPvB.			

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	-					

SECTION	ON 4. First aid measures	
4.1.	Description of first aid measures	
	General notes:	-
	Following inhalation:	No information available
	Following skin contact:	No information available
	Following eye contact:	No information available
	Following ingestion:	No information available
	Self-protection of the first aider:	Treat symptomatically.
4.2.	Most important symptoms and ef	fects, both acute and delayed
	Following inhalation:	No information available
	Following skin contact:	No information available
	Following eye contact:	No information available
	Following ingestion:	No information available
4.3.	Indication of any immediate medi	cal attention and special treatment needed
	-	

SECTION 5 Firefighting measures				
5.1.	Extinguishing media			
Cuitable autic autichicae mandiae		Small fire - water spray, dry powder, CO <sub>2</sub>		
	Suitable extinguishing media:	Large fire - water spray or alcohol-resistant foam		



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	Unsuitable extinguishing media: water jet
	Officiable extinguishing friedia. 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.

6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne				
0.1.1.	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those			
	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.			
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 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.				



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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 generation:	Secure proper ventilation.				
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.				
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 wel 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)					
_	Recommendations:	-				
	Industrial sector specific solutions:	-				

SECTION 8. Exposure controls/personal protection							
8.1. Control parameters							
Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values			
		ppm	mg/m³				
-	-	-	-	No information available			
Substance - name:							



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

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	¥	1						
EC No:	-	CAS No:	-					
DNEL			l.o.	d				
Davita of		Acute		dustrial		Chronic	Chronic	
Route of exposure:	exposure: effect local		Acut effect sys			effect local	effect systemic	
Oral		-	-		_		-	
Inhalation		-	-		_		-	
Dermal		-	-		-		-	
Critical physical parameters: solubility, flamma		ammability, cor	rosivity:	-				
	-		Co	nsumer				
Route of exposure		Acute effect local	Acut effect sys			Chronic effect local	Chronic effect systemic	
Oral		-	-		-		-	
Inhalation		-	-		-		-	
Dermal		-	-		-		-	
PNEC								
Environme	ental prote	ction target		PNEC				
Fresh wate	er			No information available				
Freshwate	r sedimen	ts		No information available				
Marine wa				No information available				
Marine se				No information available				
Food chair				No information available				
		ewage treatment		No information available				
Soil (agric	ultural)			No information available  No information available				
Air				No inforn	nation	available		
8.2.	- Fynasius	e controls						
8.2.1.	-	riate engineering co	ntrols					
0.2.1.		nce/mixture related						
	measures to prevent exposure during identified uses:		Ir∆ :	Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				<u>;</u>
	Structur exposur	ral measures to prevere:	ent No info	No information available				
		ational measures to exposure:		Organization of work in order to reduce other worker's influence during work process.				
	Technic exposur	al measures to prevere:	1	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				



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8.2.2.	Personal protection equi	pment				
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:	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:		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:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No in	formation available			
8.2.3.	Environmental exposure	Environmental exposure controls				
	Substance/mixture relate measures to prevent exp		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 pr exposure:	event	See Section 6			

SECTI	SECTION 9. Physical and chemical properties					
9.1.	Information on basic physical and che	emical properties				
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	purple	No information available			
	Odour/odour threshold:	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			



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	Decomposition temperature:	No information available	No information available
	рН:	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.			

11.1. Information	n on toxicological effe	rtc			
11.1. IIIIOIIIIauoi	i on toxicological effec	.15			
Acute toxic	ity:				
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	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 – sir	ngle exposure (S	STOT SE):		
•	Specific e		Target orga	n	Note



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rioduct code.	CV-OT-X	De	ite or compila	.1011. 21 De	C 2022	VEISIOI	1. 4
Oral exposure:	No inform	ation available	No infor	mation availal	ole	-	
Dermal exposure	: No inform	ation available	vailable No information available			-	
Inhalation exposure: No information available			No infor	mation availal	ole	-	
Respirat	ory irritation:	N	o information a	vailable			
Irritation	and corrosion					-	
	Exposure tin	ne Speci	ies Eva	aluation	Method		Note
Skin irritation:	-	-	-		-	-	
Eye irritation:	-	-	-		-	-	
Sensitiza	ation						
Dermal exposure	: No information	n available					
Inhalation exposure:	No information	n available					
	i						
Symptoi	ms related to the p	hysical, chemic	al and toxicolog	jical character	istics		
Oral exposure:	No information	available					
Dermal exposure	: No information	available					
Inhalation exposure:	No information	available					
Eye exposure:	No information	available					
Repeate	d dose toxicity (sub	oacute, subchro	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluation	n N	ote
Subacute oral	No information available	No information available	No information available	No informatio n available	No inform available	nation -	
Subacute dermal	No information available	No information available	No information available	No informatio n available	No inform available	nation -	
Subacute inhalation	No information available	No information available	No information available	No informatio n available	No inform available	nation -	
Subchronic oral	No information available	No information available	No information available	No informatio n available	No inform available	nation -	



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Subchronic dermal	_	No information available No information available		No infoi avail	rmation lable	No informatio n available	No infor		-
Subchronic inhalation	No information i		No information available	ormation info		No informatio n available	No infor		-
Chronic oral	No information available		No information available	No infoi avail	rmation lable	No informatio n available	No infor		-
Chronic dermal	No information available		No information available	No infoi avail	rmation lable	No informatio n available	No infor		-
Chronic inhalation	No information available		No information available	No infoi avail	rmation lable	No informatio n available	No infor		-
Specific	target		y – repeated e	xposu	re (STOT I			1	
			cific effects						Note
Subacute oral			ition available					-	
Subacute derma			ition available					-	
Subacute inhala	tion		ition available				-		
Subchronic oral			tion available					-	
Subchronic derr			ition available				-		
Subchronic inha	lation		ition available					-	
Chronic oral			ition available		No information available			-	
Chronic dermal			ition available		No information available			-	
Chronic inhalati	on	No informa	tion available		No infor	mation availab	le	-	
	facts (c	arcinogenicity	y, mutagenicity	v rann	oductive t	ovicity)			
CMR a			, ,	<u> </u>	on availab				
	aenicity	Carcinogenicity:  Mutagenicity <i>in-vitro</i> :							
Carcino		n-vitro:	No info	No information available  No information available					
Carcino Mutago	enicity i	n-vitro:				le			
Carcino Mutago Genoto	enicity <i>ii</i> exicity:		No info	rmatio					
Carcino Mutago Genoto Mutago	enicity <i>ii</i> exicity:		No info	rmatio	on availab	le			



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11.2	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
11.2.2.	Other 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 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>	72 hours	No information available	No information available	-	-
Other organisms	-	-	-	-	_	-

### 12.2. Persistence and degradability



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	Degra	dation hal	f-lives		Method		Evaluatio	n	Note
Marine water	No info	rmation av	ailable	No info	rmation availab	le No inform	No information availab		-
Fresh water	No info	mation av	ailable	No info	rmation availab	le No inforn	nation ava	ilable	-
Air	No info	mation av	ailable	No info	rmation availab	le No inforn	nation ava	ilable	-
Soil	No info	mation av	ailable	No info	rmation availab	le No inforn	nation ava	ilable	-
	egradatio								
% Degradati		Time (days			lethod	Evaluation			ote
No informatio available	on No avail		nation	No inforn available	nation	No informati available		No informa available	tion
				3	·		1		
12.3. Bioa	ccumulativ	e potentia	I						
Parti	tion coeffi	cient: n-oc	tanol/w	ater (log K	ow):				
Value	Concen	tration	рН	°C	Method	Evalu	ation		Note
_	No info	rmation	-	No information		n No information available		-	
	available				avanable	available			
·····									
Bioc	oncentrati	on factor (l	BCF)	1					
Bioc Value	oncentrati	on factor (I Species		N	1ethod	Evaluat	ion		Note
Value No information	on No	Species		No inforr available		Evaluat No informati available		No inforr	mation
	on No	Species		No inforr		No informati		No inform	mation
Value No information	on No	Species		No inforr		No informati		No inform	mation
Value No informatio available	on No	Species infori ilable		No inforr		No informati		No inform	mation
Value No informatio available	on No ava	Species infori ilable	mation	No inforr		No informati	on	No inform	mation



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Tradin	ng nar	me:					CRESY	L VIOL	ET, S	SOLUTIO	N	T					
Produ	ict co	de:	CV-O	T-X**		Date of compilation: 21 Dec 2022						Version: 4					
Chronic toxicity on crustacea ( <i>Daphnia</i> )		EC <sub>50</sub>	No information available				No information available		No inform available	nation	-						
12.4.	Мо	bility in	soil														
				ed distribution	on in er	nvironm	ental	compart	ment	ts:							
	No	informa	ation av	/ailable													
	Sur	face ter	nsion:														
		Value		°C	Co	oncentra	ation			Method			Note				
		ormatio ilable	n i	information	int	ormatic ailable	on	No inf	orma	ation avail	able	-					
	Ads	sorption	) / desc	protion													
	Aus	Sorption		pefficient													
Transp	ort	Henry's constant		•		•		•		log Kov	٧	Evapora	ation	rate	Method		Note
Soil-wa	ater			on available	iı c	No nformat on available	a١	No information available		1	No informatior available	<b>1</b> -					
Water-	-air	No in	formati	on available	ii C	No nformat on available	a١	No information available		1	No informatior available	1 -					
Soil-aiı	r	No information available		iı C	No nformat on available	a١	No information available		1	No informatior available	1 -						
		:			<u>i</u>		1			i_							
12.5.	Res	ults of	PBT and	d vPvB asses	sment												
	acc	ording	to REA	xture does n CH Article 57 018/605 at le	(f) or C	Commiss	sion D	elegated				•	ng properties mmission				
12.6.	End	locrine	disrupt	ing properti	es												
	acc	ording	to REA	xture does n CH Article 57 018/605 at le	(f) or C	Commiss	sion D	elegated				•	ng properties mmission				



Special precautions for user:

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12.7.	Other adv	verse effects			
	No inform	nation available			
	. 42 51				
13.1.		reatment methods			
13.1.	waste t	reatment methods			
13.1.1.	Product	t/Packaging disposal:			
	Submit Protecti		al person authorized by the Mir	nistry of Environmer	ntal and Nature
13.1.2.	Waste o	codes/waste designati	ons according to Law:		
	No info	rmation available			
13.1.3.	Waste t	reatment – relevant ir	nformation:		
	No info	rmation available			
13.1.4.	Sewage	e disposal – relevant in	formation:		
	<u> </u>	·	of into the sewage system.		
	Ē.				
13.1.5.	Other d	isposal recommendat	ions:		
	authoriz	zed by the ministry in	ct's remains into the sewage syst charge. Do not dispose of the parts rs authorized by the ministry in a	ackaging into the se	ewage system. Submit
13.1.6.	Relevan	t Community provisio	ns:		
	_				

	····
Transporting/shipment by	road (ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-



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Transporting/shipment by rail (R	
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (IC.	AO-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:	-
Further information: -	

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					



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	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 19 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	ent
	None	

SECTIO	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		



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

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Trading name:	CRESYL VIOLET, SOLUTION				
Product code:	CV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

16.3.	Key literature references and source of data:	-	
16.4.	Classification and procedure used 1272/2008 (CLP)	to derive the classification for mixture according to Regulation (EC)	
Classific	cation	Classification procedure	
_		-	
16.5.	Relevant H statements (number and full text)		
	H: -	-	
16.6.	Training advice:	-	
		** "X" in the product code marks different volumes (different packagings of the product)	
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** 

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

amended by Regulation (EU) No. 2020/878

Page 1 of 16

Trading name:	LITHIUM CARBONATE, LUXOL				
Product code:	LKL-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

SECTI	ON 1: Identification of	the substance	e/mixture	e and of the company/undertaking	
1.1	Product identifier				
	Trading name:	LITHIUM CARBONATE, LUXOL			
	Chemical name:	-			
	Catalogue number:	LKL-OT-X**			
1.2	Relevant identified use	es of the subst	tance or n	nixture and uses advised against	
	Uses:		For use	with Luxol Fast Blue kit.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	National Protection and Rescue Dire		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 F	egulation (EC) No 1	272/2008 (CLP)		
	Hazard class and cat	egory code:	Hazard statements*:		
	Not identified as hazardous	substance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	LITHIUM CARB	DNATE, LUXOL		
	Identification number: -				
	Authorization number: -				
	Hazard pictograms:	-			



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Trading name:	LITHIUM CARBONATE, LUXOL				
Product code:	LKL-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	Signal word:	-	
	Hazard statements:	-	
	Precautionary statements:	-	
	Supplemetal hazard information (EU):	-	
2.3	Other hazards		
	<b>Endocrine Disrupting Propert</b>	ies:	
	No known endocrine disrupting properties		
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not PBT or a vPvB.		

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)	
554-13-2/ 209-062-5/ -	-	< 1 %	lithium carbonate	Acute Tox. 4; H302 Eye Irr. 2; H319	

SECTI	SECTION 4. First aid measures			
4.1	Description of first aid measures			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.		
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.		
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.		
	Self-protection of the first aider:	-		
4.2	Most important symptoms and effects, both acute and delayed			



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Trading name:	LITHIUM CARBONATE, LUXOL				
Product code:	LKL-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	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.
	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	ECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	water spray, dry powder, CO <sub>2</sub> or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full 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 co	ompressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.				

SECTIO	CTION 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. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in car (see Section 8).	se of inadequate ventilation use adequate airways protective equipment			
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 conta	inment and cleaning up			



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Trading name:	LITHIUM CARBONATE, LUXOL				
Product code:	LKL-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.	
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit fo disposal to the legal persons authorized by the Ministry of Environmenta and Nature Protection. After disposal of the products, wash the area and and involved materials with water.	
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).	
6.4	Reference to other sections		
	See Section 7 for information on safe handling.		
	See Section 8 for information on personal protection equipment.		
	See Section 13 for disposal in	formation.	

SECTIO	ON 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. The	oroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incom	patibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures rangin from 15 to 25 °C. Protect from heat and direct sunlight				
	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:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.			



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Trading name:	LITHIUM CARBONATE, LUXOL				
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	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 end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Expo	sure contr	ols/perso	nal pro	otection					
8.1 Control p	arameters								
Substanc	e	CA				cupational exposure limit alues/short term values		Biological limit values	
					ppm	n	mg/m³		
-			-		-		-	-	
				•					
Substance name:	-								
EC No:	-	CAS No	:	-					
DNEL									
				lr	ndust	rial			
Route of	Acı	Acute Acute			Chronic			Chronic	
exposure:	effect	local	effect systemic		iic	effect local			effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
Critical physical pa	arameters: s	solubility,	flamma	ability, co	orrosi	vity:	-		
				C	onsu	mer			
Route of	A	cute		Acute		Chronic			Chronic
exposure:	effec	t local	effec	t system	nic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
PNEC									
Environmental protection target				PNEC					
Fresh water				no	inform	nation available			
Freshwater sediments				no information available					
Marine water					no	no information available			
Marine sediments					no information available				



Food chain

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

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no information available

Microorganisms in sewage treatment			no information available	
Soil (agric	cultural)		no information available	
Air			no information available	
8.2	Exposure controls			
8.2.1.	Appropriate engineering controls			
<u>VIE.</u>	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to prevent exposure:		In accordance with Section 7.	
	Organisational measures to prevent exposure:	t	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment	tion equipment		
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.	
8.2.2.2.	Skin protection			
	-	-	otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min	
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) according to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available	
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Se	ction 6	



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Trading name:	LITHIUM CARBONATE, LUXOL							
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Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

Information on basic phy	sical and chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	no information available/information available	No information available
Melting point / freezing p	point: No information available	No information available
Boiling point or initial bo point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lower and upper explosion	on limit: No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperatur	re: No information available	No information available
Decomposition temperat	ure: 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 noctanol/water (log value)	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative de	ensity: No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available
Other information		

SEC	FION 10. Stability and reactivity	
10.1	Reactivity:	See subsections 10.3 through 10.5.



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10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No information available
10.4	Conditions to avoid:	No information available
10.5	Incompatible materials:	No information available
10.6	Hazardous decomposition products:	No information available

	exicological information on hazard classes		n Regulați	on (FC) No 1272	/2008	
Acute to		us acilitea i	n regulati	011 (20) 140 1272/		
Route of exposure:	Method	Species		LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure ti	me Results
Oral:	No information available	_	No info	ormation le	_	-
Dermal:	No information available	-	No info availab	ormation le	-	-
Inhalation:	No information available	-	No info availab	ormation le	-	-
Specific	target organ toxicity -	- single expo	osure (STO	T SE):		
	Specific	effects		Target organ		Note
Oral:	No information av	vailable	No information available		-	
Dermal:	No information av	vailable	No information available		-	
Inhalation:	No information av	vailable	N	o information ava	-	
Aspirati	on hazard:	N	o informat	ion available.		
Irritatio	n and corrosion					
	Exposure t	ime	Species	Evaluation	Method	Note
Skin corrosion/irritati	on:	-		-	-	-
Serious eye damage/irritatio	n -	-		-	-	-
Sensitiz	ation					
Skin sensitization	n: No infor	mation availa	able.			
Respiratory sens	itization: No infor	mation availa	able.			



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Trading name:	LITHIUM CARBONATE, LUXOL						
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	ms related to the p	hysical, chemic	al and toxicolog	gical characterist	ics	
Oral exposure:	No informa	tion available.				
Dermal exposure	e: No informa	tion available.				
Inhalation expos	ure: No informa	tion available.				
Eye exposure:	No informa	tion available.				
Repeate	ed dose toxicity (su	bacute, 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	-



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Trading name:	LITHIUM CARBONATE, LUXOL							
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Subacute or	al	No information available			No information available	-	
Subacute de	ermal	No information available			No information available		
Subacute inl	halation	nalation No information available			No information available	-	
Subchronic	oral	No information available			No information available	-	
Subchronic	dermal	No information available			No information available	-	
Subchronic i	inhalation	No information available			No information available	-	
Chronic oral		No information available			No information available	-	
Chronic deri	mal	No information available			No information available	-	
Chronic inha	alation	No information available			No information available	-	
<u> </u>							
CM	IR effects (ca	arcinogenicity; mutagenicit			<u> </u>		
Car	cinogenicity	y:			able data, the classification		
Mu	tagenicity <i>ii</i>	n vitro:	Based on available data, the classification criteria are not met.				
Ger	notoxicity:		Based on available data, the classification criteria are not met.				
Mu	tagenicity <i>ii</i>	n vivo:	Based on available data, the classification criteria are not met.				
Ger	rm cell muta	agenicity:	Based on available data, the classification criteria are not met.				
Rep	oroductive t	oxicity:	Bas	Based on available data, the classification criteria are not met.			
	mmary of operties:	evaluation of the CI	МR	Based on met.	available data, the classif	cation	criteria are not
11.2 Info	ormation or	other hazards:					
11.2.1. End	docrine disr	upting properties:					
cor disi Art reg Reg	mponents c rupting pro icle 57(f) Julation (EU	e/mixture does not cont onsidered to have endocr perties according to REA or Commission Delegar ) 2017/2100 or Commiss ) 2018/605 at levels of 0.1%	ine CH ted ion				
11.2.2. Oth	ner informat	ion:					
_							

SECTION 12. Ecological information							
12.1 Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	



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Trading name:		LITHIUM CARBONA	TE, LUXOL		
Product code:	LKL-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

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>	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	_	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information	No information	No information	-
FISTI	LC50		available	available	available	
Crustacea:	EC <sub>50</sub>	48 hours	No information available	available  No information available	available  No information available	-
		48 hours 72 hours	No information	No information	No information	-

	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	-

 ·			rad	- 4	•
 ≺ I	$\sim$	חסו	ran	ιэт	เกก

= 10 0.09.000				
% Degradation	Time (days)	Method	Evaluation	Note
No information available				



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									1 0	ige i	2 01 10	
Tradir	ng name:				LI	THIUM	CARE	ONATE, LUX	(OL			
Produ	ct code:	LKL-0	OT-X**		Date	of com	pilatio	on: 21 De	ec 2022	ν	ersion:	3
12.3	Pioaccum	ulativo	notontial									
12.5	Octanol-w		rtition coef	ficient (	log Kow	·)						
Valı		ncentra		рΗ	°C	Meth	nod	Evalu	ation		Note	
-	-	ricerra	-			-	100	- Evala	duon	_	14010	
	:		:	i	:			:	2			
	Bioconcer	tration	factor (BCF	)								
`	Value		Species		ľ	Method		Evaluati	on		Note	
	ormation	No		nation		ormation		No informati available	on -			
availab	oie	availa	Die		availab	ne		avaliable				
	Chronic ed	cotoxici	ty									
	Value		Dose		osure ime	Speci	ies	Method	Evaluati	ion	Note	)
Chroni	c toxicity on	fish	LC <sub>50</sub>	No infor availa	mation able	No informa availabl		No information available	No informati available	on	-	
Chroni	c toxicity on			No		No	No	No				
	cea ( <i>Daphnia</i>		EC <sub>50</sub>	infor availa	mation able	informa availabl		information available	informati available	on	-	
12.4	Mobility in	n soil										
		•	ed distribut	ion in e	environm	nental co	mpart	ments:				
	No inform		vailable									
	Surface te	nsion:							-1			
	Value		°C	С	oncentra	ation		Method			Note	
	No information available		o formation vailable		informa ailable		No inf availab	ormation ole	-			



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Trading name:		LITHIUM CARBONA	TE, LUXOL		
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	Adsorption / desorption						
Transport	t A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note		
Soil-wate	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	-		
	Results of PBT and vPvB asses						
3	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at l	7(f) or Commission	n Delegated regulat				
12.6. I	Endocrine disrupting propert	ies					
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at l	7(f) or Commission	n Delegated regulat				
12.7	Other adverse effects						
	No further relevant information	on available.					
SECTION	I 13. Disposal consideration	S					
13.1	Waste treatment methods						
13.1.1.	Product/Packaging disposa	l:					
13.1.1.	Product/Packaging disposal Submit for disposal to the I Protection.		rized by the Ministr	y of Environmental	and Nature		
13.1.1.	Submit for disposal to the I	egal person autho		y of Environmental	and Nature		
	Submit for disposal to the I Protection.	egal person autho	o Law:				
	Submit for disposal to the I Protection.  Waste codes/waste designated to the I Protection.	egal person autho ntions according to ontains residual ha	o Law:				
13.1.2.	Submit for disposal to the I Protection.  Waste codes/waste designated to the I Protection.  15 01 10*: Packaging that consults and the I Protection.	egal person autho ntions according to ontains residual ha	o Law:				



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Trading name:		LITHIUM CARBONA	TE, LUXOL		
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	Waste must not be disposed of into the sewage system.					
13.1.5.	Other disposal recommendation	ons:				
	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.					
13.1.6.	Relevant Community provisions:					
	Disposal must be made according to official regulations.					
SECTION	14 TRANSPORT INFORMATIO	N Company of the comp				
٦	Fransporting/shipment by road (	ADR)				
UN numb	oer:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	hazard class(es):	-				
Packing g	roup:	-				
Environm	entally hazardous:	-				
Special pr	recautions for user:	-				
٦	Transporting/shipment by rail (RI	ID)				
UN numb	er:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	hazard class(es):	-				
Packing g	roup:	-				
Environm	entally hazardous:	-				
Special pr	recautions for user:	-				
I	nland waterway transport (ADN)					
UN numb	er:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	: hazard class(es):	-				
Packing g	roup:	-				
Environm	entally hazardous:	-				
Special pr	recautions for user:	-				
٦	Transporting/shipment by sea (IN	MDG)				
UN numb	er:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	: hazard class(es):	-				
Packing g	roup:	-				



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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:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

15.1	Safety, health and environ	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or rest	trictions 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 an Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EE 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 200 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 amendin Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safet 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 1 December 2008 on classification, labelling and packaging of substances and mixture amending and repealing Directives 67/548/EEC and 1999/45/EC, and amendin 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);				



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

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	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 assessment		
	None		

SECTIO	ON 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		
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)		
Classif	ication	Classification procedure		
-		-		
16.5.	Relevant H statements (numb	per and full text)		
	H: 302	Harmful if swallowed.		
	319	Causes serious eye irritation		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings o 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
-



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

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Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

SECT	ION 1: Identification	n of the substa	ance/mixt	ture and of	f the company/undertaking		
1.1.	Product identifier						
	Trade name:	LUXOL FAST	LUXOL FAST BLUE, SOLUTION				
	Chemical name:	-	-				
	Catalogue number:	LFB-OT-X**					
1.2.	Relevant identified	uses of the sub	ostance or	r mixture ar	nd uses advised against		
	Uses:			For use w	ith Luxol Fast Blue kit.		
	Uses advised against:			Only the i	dentified uses are advised.		
	Reason why uses advised against:			The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3.	Details of the supplier of the safety data sheet						
	Supplier:		BioGr	BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb				
	Telephone number	r:	+385	+385 1 2409997			
	Telefax:		+385	+385 1 2404039			
	E-mail of compete	nt person:	<u>msds</u>	msds@biognost.hr			
	National contact:		-				
1.4.	Emergency telepho	one numbers					
	National Protection	n and Rescue D	irectorate	:	112		
	Medical information	n:			+385 1 2348 342		
	Other information:				-		

SECTION	SECTION 2. Hazards identification					
2.1.	Classification of the substar	nce or mixture				
2.1.1.	Classification according to	Regulation (EC) No	o. 1272/2008 (CLP)			
	Hazard class and cate	egory code:		Hazard statement*:		
Flam. Liq. 2			H225			
2.1.2.	Additional information	Additional information				
	-					
*For fu	ull text of Hazard- and EU Haza	ard-statements: se	e Section 16.			
2.2.	Label elements					
	Product identification:	LUXOL FAST	BLUE, SOLUTION			
	Identification number: -					



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	Authorisation number:	
	Hazard pictograms:	GHS02
	Signal word:	Danger
	Warning statement:	H225 Highly flammable liquid and vapor.
	Precautionary statement:	<ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke.</li> <li>P233 Keep container tightly closed.</li> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> </ul>
	Supplemental hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Prope No known endocrine disrupti Results of PBT and vPvB ass PBT or a vPvB.	

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	80 - 100 %	ethanol	Flam. Liq. 2; H225				
64-19-7/ 200-580-7/ 607-002-00-6	-	0.2 – 0.5 %	acetic acid, glacial 99%	Flam. Liq. 3; H226 Skin Corr. 1A; H314				

SECT	SECTION 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			



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	Following skin contact:	Remove all contaminated clothes/footwear. Thoroughly wash with water for at least 15 minutes.
	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.
	Following swallowing:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.
	Self-protection of the first aider	-
4.2.	2. Most important symptoms and effects, both acute and delayed	
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following swallowing:	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 medical attention and special treatment needed	
	No information available	

SECT	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO2 Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous byproducts of fire:	Incomplete combustion of the product.			
5.3.	Advice for firefighters				
	Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing).				
5.4.	Additional information				
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.				

SECTION 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	



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	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Self-contained open-circuit con heat dissipation (fireproof cloth	mpressed air breathing apparatus, a set for protecting the body from ning).			
6.2.	Environmental precautions:				
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.				
6.3.	Methods and materials for cont	tainment 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:	Sawdust, sand, mineral adsorbents			
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). Do not use incompatible materials (see Section 10).			
6.4.	Reference to other sections				

SECTIO	SECTION 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do 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:	Protect against electrostatic charges.			
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 inco	ompatibilities			



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	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.
	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 10).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection							
8.1. Control para	meters						
Substance	CAS N		Occupational exposure limit values/short term values		•	Biological limit values	
			pp	m	mg/m³		
Ethanol	64-17-	5	100	0/-	1900/-	No information available	
Substance:	-						
EC No:	-		CAS N	No:	-		
DNEL							
		1	ndustri	al			
Route of exposure:	Acute	Acute		Chronic		Chronic	
Route of exposure.	effect local	effect syst	emic	e	ffect local	effect systemic	
Oral	-	-		-		-	
Inhalation	1900 mg/m <sup>3</sup> (ethanol)	-		-		380 mg/m³ (ethanol)	
Dermal	-	-		-		343 mg/kg (ethanol)	
Critical physical parameters: solubility, flammability, corrosivity:							
	Consumer						
Route of exposure:	Acute	Acute			Chronic	Chronic	
Route of exposure:	effect local	effect syst	emic	е	ffect local	effect systemic	
Oral	-	-		-		87 mg/kg bw/day (ethanol)	



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Trade n	ame:			LUXOL FAST BLUE, SOLUTION					
Product	t code:	LFB-OT-X**		Date of o	Date of compilation: 14		Nov 2022	Version:	5
Inhalatio	on	950 mg/m <sup>3</sup> (ethanol)	-		-		114 mg/m <sup>3</sup>	³ (ethanol)	
Dermal		-	_		-		206 mg/kg	(ethanol)	
PNEC		1							
Environr	nental prot	ection target		PNEC					
Fresh wa	iter			0.96 mg/l (	ethanol)				
Freshwa	ter sedime	nts		3.6 mg/kg	(ethanol)				
Marine v	vater			0.79 mg/l (	ethanol)				
Marine s	ediments			2.9 mg/kg	(ethanol)				
Food ch	ain			380-720 m	g/kg (ethanol)				
Microor	ganisms in	sewage treatment		580 mg/l (e	ethanol)				
Soil (agr	icultural)			0.63 mg/kg	g (ethanol)				
Air				no informa	tion available				
	1								
8.2.	Exposure	controls							
8.2.1.		iate engineering cor	ntrols						
	measure	ce/mixture related s to prevent exposu dentified uses:	re	Do not eat, drink or smoke in the workspace. Use personal protective equipment.					
	Structura exposure	al measures to preve e:	ent	No information available					
		ational measures to exposure:		Organization of work in order to reduce other worker's influence during work process.					
	Technica exposure	I measures to preve e:	nt	See Section	7.2				
8.2.2.	Personal	protection equipme	ent						
8.2.2.1.	Eye and	face protection:	of c	concentration	nt stick to face (EN in air; protective of levels of concenti	gas mas	k that cover		
8.2.2.2.	Skin pro	tection							
	Protective gloves must be according to the EU Directive 2016/425/ and standard EN 374.				EEC.				
	Hand pro	otection:			iterial: nitrile rubb ckness: ≥0.50 mn				
					ough time: >480				



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	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No information avai	nilable	
8.2.3.	Environmental exposure contr	rols		
	Substance/mixture related me exposure:	easures to prevent	See Section 6	
	Structural measures to prevent exposure:		Use modern equipment.	
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.	
	Technical measures to preven	t exposure:	See Section 6	

9.1.	Information on basic physical an	d chemical properties	
		Value	Method
	Physical state:	liquid	no information available
	Colour:	blue	no information available
	Odour/odour threshold:	ethanol 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:	15 °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



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	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	ON 10.: Stability and reactivity				
10.1.	Reactivity:	The product is stable under normal working and storage conditions.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	Risk of explosion after contact with strong acids, alkali metals, al metal oxides, nitric acid, oxidizing substances.			
10.4.	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.			
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.			
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.			

11.1. Inforn	nation on hazard	classes as defined	in Regulation (	EC) No 1272/2008			
Acute	toxicity:						
Route of exposure:	Method Species		Effective Dose LD <sub>50</sub> /LC <sub>50</sub> o ATE <sub>mixture</sub>	Dose Exposure LD <sub>50</sub> /LC <sub>50</sub> or time		Results	
Oral:	-	rat	LD <sub>50</sub>	-	7.060 mg/kg (ethanol		
Dermal:	-	rabbit	LD <sub>50</sub>	-	>20.00	0 mg/kg (ethanol)	
Inhalation:	halation: -		LC <sub>50</sub>	4 h (ethanol)	>8.000 mg/l (ethanol)		
Specific targ	et organ toxicity -	single exposure	(STOT-SE):	Target orgar	١	Note	
Oral:	No informat	ion available		No information availabl		-	
Dermal:	No informat	ion available		No information avai		-	
Inhalation: No information available		No information ava		ilable	-		



No

information

available

Subchronic

oral

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

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Product code:		LFB-OT-X**		Da	te of con	npilati	on:	14 No	lov 2022 Versio		sion:	5
Irritation ar	nd co	rrosion										
3		Exposure	time	Speci	es		Evaluation	1	Me	thod	١	Vote
Skin corrosion/irritat	tion	No informatic available	on No	o info ailable	ormation	No ir availa	nformation able		No inform availab		-	
Serious eye damage/irritatio	on	No informatic available	on No av	o info ailable	ormation	No ir availa	nformation able		No information available		-	
Sensitization												
Skin sensitization		No inform	ation avai	lable								
Respiratory	/11 <b>.</b>	No inform										
sensitization:												
Symptoms re	elatec	I to the physi	cal, chemi	cal and to	oxicologica	al char	acteristics					
Oral exposure:		Swallowing sensation; h In case of vo concentration	igher leve omiting, as	ls of conc spiration o	entration causes cou	may c	ause nause	a, abdo	minal pai	n and	vomiti	ing.
Dermal exposur	re:	Slight irritat may cause o				•		e not lik	cely. Long	-term	ı expos	ure
Inhalation exposure:		Inhalation o	_		•		quately ven	tilated p	oerimeter	may	cause	
Eye exposure:		Direct eye c sensation.	ontact ma	y cause sl	light to m	oderat	e irritation,	lacrima	ation and	burni	ng	
Donosto d do	4-	; .; <b>.</b>			:-)							
Repeated do	se to	Dose	Exposur		Specie	26	Method		Evaluation		Note	
Subacute oral		ormation	•	ormation	No information	tion	No information	n i	No nformation		-	
Subacute dermal		ormation	No info available	ormation	No informa	tion	No information available	n i	No nformatio available	on	-	
Subacute inhalation		ormation	No info available	ormation	No informa available	tion	No information available	n i	No nformatio available	on	-	
								· · · · · · · · · · · · · · · · · · ·				

No

information

available

No

information

available

information

No

available

No

information

available



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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	-
1						
Specific targ	et organ toxicity	repeated exposure			1	
		Specific effects		Target or	_	Note
Subacute oral		No information available		No information a	vailable -	
Subacute derm		No information avail		No information a	vailable -	
Subacute inhal	ation	No information avail	able	No information a	vailable - vailable -	
Subacute inhal Subchronic ora	ation I	No information avail	able able	No information a No information a No information a	vailable - vailable - vailable -	
Subacute inhal Subchronic ora Subchronic der	ation al rmal	No information avail No information avail No information avail	able able able	No information a No information a No information a No information a	vailable - vailable - vailable - vailable -	
Subacute inhal Subchronic ora Subchronic der Subchronic inh	ation al rmal	No information avail No information avail No information avail No information avail	able able able able	No information a No information a No information a No information a No information a	vailable - vailable - vailable - vailable - vailable -	
Subacute inhal Subchronic ora Subchronic der Subchronic inh Chronic oral	ation al rmal alation	No information avail No information avail No information avail No information avail	able able able able able	No information a No information a No information a No information a No information a	vailable - vailable - vailable - vailable - vailable - vailable -	
Subacute inhal Subchronic ora Subchronic der Subchronic inh Chronic oral Chronic derma	ation al rmal alation	No information avail	able able able able able able	No information at No informati	vailable -	
Subacute inhal Subchronic ora Subchronic der Subchronic inh Chronic oral	ation al rmal alation	No information avail No information avail No information avail No information avail	able able able able able able	No information a No information a No information a No information a No information a	vailable -	
Subacute inhal Subchronic ora Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat	ation  I  tion	No information avail	able able able able able able able	No information a No information a No information a No information a No information a No information a No information a	vailable -	
Subacute inhal Subchronic ora Subchronic inh Chronic oral Chronic derma Chronic inhalat	ation  I  tion  (carcinogenicity	No information avail	able able able able able able able able	No information at No informati	vailable -	
Subacute inhal Subchronic ora Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat  CMR effects Carcinogeni	ation  I  tion  (carcinogenicity city:	No information avail	able able able able able able able uctive toxicit	No information at No informati	vailable -	
Subacute inhal Subchronic ora Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat  CMR effects Carcinogeni Mutagenicit	ation  I tion  (carcinogenicity city: y in-vitro:	No information avail	able able able able able able able able	No information as No informati	vailable -	
Subacute inhal Subchronic ora Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat  CMR effects Carcinogeni Mutagenicit Genotoxicity	ation  I tion  (carcinogenicity city: y in-vitro:	No information avail	able able able able able able able able	No information at No informati	vailable -	
Subacute inhal Subchronic ora Subchronic der Subchronic inh Chronic oral Chronic derma Chronic inhalat  CMR effects Carcinogeni Mutagenicit	ation  Irmal Icalation  (carcinogenicity city: y in-vitro: y in-vivo:	No information avail	able able able able able able able able	No information as No informati	vailable -	



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Trade name:	LUXOL FAST BLUE, SOLUTION						
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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.	cological i	nformation				
12.1. Toxic	ity					
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Fish	No information available	8.140 mg/l (ethanol)	<b>-</b>
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquati c plants:	IC <sub>50</sub>	72 hours	algae	No information available	5.000 mg/l (ethanol)	-
Other organisms	-	-	_	_	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
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/aquati c plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12	2.2.	Persistence and degradability								
		Abiotic degradation								
		Degradation half-lives	Method	Evaluation	Note					
	larine ater	No information available	No information available	No information available	-					



Trade name	e:				LU	XOL FAST BLU	JE, S	OLUTION	١			
Product cod	de:	LFB-OT-X	**		Da	te of compilati	on:	14	Nov 2022	V	ersion:	
Fresh water	No ii	nformation a	vailable		lo info vailab	ormation ble	No information available		on -			
Air	No ii	nformation a	vailable					informati ilable	on -			
Soil	No ii	nformation a	vailable		lo info vailab	ormation ble		informati ilable	on -			**********
Biodegrac	lation											
% Degradat		Time (d	ays)		N	/lethod		Evaluatio	n		Note	
<u> </u>	_	`	<u>, ,                                    </u>	_			-		_			
				1			<u> </u>		i			
12.3.	Bioacc	umulative po	otential									
	Octan	ol-water part	ition coe	fficient	(log k	(ow)						
Value	Value Concentration p		рН	°C Method			Eval	uation		Note		
-	-		-	-				-		-		
	ncentra	ntion Factor (		9 9 9 9 9		Method		- Fyra	luation		Note	
Value		Spec	ies			Method		Eva	luation		Note	
No information available	٨	lo informatio	n availab	ole N	No information available			No infor		-		
												_
Chronic e	cotoxi	city										
		Dose	Ехро	osure ti	me	Species	M	lethod	Evaluati	on	Not	e
Value	hronic toxicity I Cro No inform		formation	on No information		No information available		No informati	on	-		
	city	LC <sub>50</sub>	availal	ble		available	ava	liable	available			

Known or predicted distribution in environmental compartments:

No information available



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	Surface tension:								
	Value		°C	Со	ncentration	Ме	thod	Note	
	No information available	No i available	information		nformation lable	No inforn availa	nation ble	-	
i	rption / desorption A/D coeffi	cient							
Transpo	rt Henry's cor	nstant	log Kov	V	Evaporatio	n rate	N	1ethod	Note
Soil-Wat	ter No inf	ormation	No informa available	ation	No informat available	ion	No int	ormation ole	-
Water-A	ir No inf available	ormation	No informa available	ation	No informat available	ion	No int	ormation ole	-
Soil-Air	No inf available	ormation	No informa available	ation	No informat available	ion	No int	ormation ole	-
12.6.	Endocrine disrupting Based on available	ng propert	ies				PVB subs	tances.	
12.7.	Other adverse effe	cts							
	No adverse effects		ted.						
SECTIO	N 13. Disposal cons	sideration	s						
13.1.	Waste treatment m	nethods							
13.1.1.	Product/Packagin	<u> </u>							
	Submit for dispos Protection.	ai to the le	egal person a	author	rized by the M	linistry (	of Enviro	onmental and	Nature
13.1.2.	Waste codes/was	te designa	tions accordi	ing to	Low:				



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

amended by Regulation (EU) No. 2020/878

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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 recomme	ndations:
authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.
13.1.6. Relevant Community pro	visions:
Disposal must be made a	ccording to official regulations.
SECTION 14. Transport information	on
Transporting/shipment by road	I (ADR)
UN number	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by rail	RID)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by inlar	nd waterways (ADN)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II.
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by sea	(IMDG)



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UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-
Transporting/shipment by air (ICAO-	TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Further information:	

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



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		Regulation (EC) No 1907/2006 of the European Parliament and of the Council of
	Other EU regulations:	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 guideline)	1999/13/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 assess	sment
	None	

SECTIO	ON 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



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16.3.	Key li data:	terature reference	s and source of _		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC 1272/2008 (CLP)				
Classific	ation		Classification procedure		
-			-		
16.5.	Relev	ant H statements	(number and full text)		
		225	Highly flammable liquid and vapour.		
	H:	226	Flammable liquid and vapour.		
		314	Causes severe skin burns and eye damage.		
16.6.	Train	ing advice:	-		
			** "X" in the product code marks different volumes (different packaging of the product)		
16.7. Further information:		er 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	
Auto-Auto-Apocaro cochario rocalining to chomical carety accocomonic	
-	