

LUXOL FAST BLUE KIT

The kit contains:

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



Page 1 of 16

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

SECTI	ON 1: Identification of	the substa	nce/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	CRESYL	VIOLET, SOLUT	ION	
	Chemical name:	-			
	Catalogue number:	CV-OT-X	X **		
1.2.	Relevant identified use	es of the s	ubstance or mix	xture and uses advised against	
	Uses:		For use with	Luxol Fast Blue kit.	
	Uses advised against:		Only the ider	ntified uses are advised.	
	Reason why uses advi	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	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	adplier.				
	Address:		Medjugorska	59, Zagreb	
	• • •		Medjugorska +385 1 24099		
	Address:			997	
	Address: Telephone number:	person:	+385 1 24099	997 939	
	Address: Telephone number: Fax no.:	person:	+385 1 24099 +385 1 24040	997 939	
1.4.	Address: Telephone number: Fax no.: e-mail of competent p		+385 1 24099 +385 1 24040 msds@biogno	997 939	
1.4.	Address: Telephone number: Fax no.: e-mail of competent p National contact:	number	+385 1 24099 +385 1 24040 msds@biogno	997 939	
1.4.	Address: Telephone number: Fax no.: e-mail of competent p National contact: Emergency telephone	number	+385 1 24099 +385 1 24040 msds@biogno	997 939 ost.hr	

SECTIO	SECTION 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 ful	l text of Hazard- and EU Hazard-sta	tements: see S	Section 16			
2.2.	Label elements					
	Product identification:	CRESYL VIOL	LET, SOLUTION			
	Identification number:	-				
	Authorization no.:	-				
	Hazard pictograms:	-				



Page 2 of 16

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

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

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 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 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 ₂ Large fire - water spray or alcohol-resistant foam		



Page 3 of 16

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

	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	ON 6. Accidental release meas	ıres		
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Wear protective equipment (ee Section 8).		
6.2.	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3.	Methods and material for co	tainment 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	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.			



Page 4 of 16

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

SECTION	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					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of hear 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:	-				

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



Page 5 of 16

									9	
Trading na	ame:				CRI	ESYL VIOL	ET, S	OLUTION		
Product co	ode:	CV-OT-	X**		Date o	Date of compilation:		21 Dec 2022	Version:	4
			1			·		•	i	
EC No:	-		CAS No:	_						
DNEL										
					Ind	lustrial				
Route of Acute		Acute	e		Chronic	Chro	onic			
exposure: effect local effec		effect syst	temic		effect local	effect sy	stemic			
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-			-		-	
Critical phy	sical para	meters: s	solubility, fla	mma	bility, cori	rosivity:	-	-		
					Cor	nsumer				
Route of		A	Acute		Acute	е		Chronic	Chro	nic
exposure:		effe	ect local	(effect syst	temic		effect local	effect sy	stemic
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal				-			-		-	
PNEC										
Environmer	ntal prote	ction tar	get			PNEC				
Fresh water	•					No inform	ation	available		
Freshwater	sediment	is				No information available				
Marine wat	er					No information available				
Marine sed	iments					No information available				
Food chain						No information available				
Microorgan	nisms in s	ewage tr	eatment			No information available				
Soil (agricu	ltural)					No inform	ation	available		
Air						No inform	ation	available		
8.2.	Exposur	e contro	ls							
8.2.1.	Approp	riate eng	ineering cor	ntrols						
		-	ire related		Use the	product in	well	ventilated rooms. Us	se nersonal n	rotective
		es to pred dentified	vent exposu I uses:	re		•		drink or smoke in th		
	Structur exposur		ires to preve	ent	No info	rmation ava	ailable			
	Organis		neasures to					order to reduce oth	er worker's in	fluence
		al measu	res to preve	nt	during work process. Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.					



Page 6 of 16

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

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:		ctive gloves must be according to the EU Directive 2016/425/EEC and eard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		r antistatic clothing made of natural fibers (such as cotton) with long ves (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 or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation 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 to prevent exposure:		Adapt the work process to the required working conditions of the workplace.		
	Technical measures to prevent exposure:		See Section 6		

SECTI	ON 9. Physical and chemical propertie	s				
9.1.	Information on basic physical and chemical 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			
	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			



Page 7 of 16

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

	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.			

SECTION 11. Toxi	cological information							
11.1. Information	on on toxicological effec	toxicological effects						
Acute tox	icity:							
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results			
Oral exposure:	No information available	-	LD ₅₀	-	-			
Dermal exposure:	No information available	-	LD ₅₀	-	-			
Inhalation exposure:	No information available	-	LC ₅₀	-	-			
Specific ta	arget organ toxicity – sir	ngle exposure (S	STOT SE):					
	Specific e	ffects	Target orgai	n	Note			



available

available

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

Page 8 of 16

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

Product code.	CV-01-X	Da	ate of compilar	uon. Zi De	c 2022 ve	rsion. 4
Oral exposure:	No informa	ation available	No infor	mation availab	ole -	
Dermal exposure		ation available		No information available		
Inhalation expos		ation available		mation availab		
<u> </u>					***	
Respira	tory irritation:	N	o information a	vailable		
Irritatio	n and corrosion		:			
	Exposure tim	ie Speci	ies Eva	aluation	Method	Note
Skin irritation:	-	-	-			
Eye irritation:	-	-	-			
Sensitiz	ation					
Dermal exposure	e: No information	available				
Inhalation exposure:	No information	available				
Sympto	ms related to the pl	nysical, chemic	al and toxicolog	gical character	istics	
Oral exposure:	No information	available				
Dermal exposure	e: No information	available				
Inhalation exposure:	No information	available				
Eye exposure:	No information	available				
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No informatio n available	No information available	-
Subacute dermal	No information available	No information available	No information available	No informatio n available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No informatio n available	No information available	_
Subchronic oral	No information available	No information	No information	No informatio	No information available	-

n available



Page 9 of 16

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

			No	No		No			
Subchronic dermal	No availa	information able	information available	nformation infor		informatio n available	No infor available		-
Subchronic inhalation	1	No information available		No information available		No informatio n available	No infor		-
Chronic oral	No availa	information able	No information available	No infor avail	mation able	No informatio n available	No infor available		-
Chronic derm	al No availa	information able	No information available	No information available		No informatio n available	No infor		-
Chronic inhalation	hronic No information			No infor avail	mation able	No informatio n available	No infor available		-
Spec	ific target		y – repeated e	xposu	re (STOT I				
-		•	cific effects	Target organ				Note	
Subacute ora			tion available				-		
Subacute der			tion available					-	
Subacute inha			tion available				-		
Subchronic or			tion available					-	
Subchronic de Subchronic in			ation available					-	
Chronic oral	ııdıdılOII		ntion available					-	
Chronic derm	al		ation available				-	_	
Chronic inhala			ation available			-			
CMR	effects (c	arcinogenicit	y, mutagenicit	y, repr	oductive t	toxicity)			
Carc	inogenicit	y:	No info	rmatio	n availab	le			
Muta	agenicity i	n-vitro:	No info	No information available					
Gend	otoxicity:		No info	rmatio	on availab	le			
Mutagenicity <i>in-vivo</i> :			No info	rmatic	on availab	le			
Muta	Germ cell mutagenicity: No informat			rmatic	on availab	le			
	n cell mut	agenicity:	NO IIIIO						



Page 10 of 16

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

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 informations:
	-

12.1.	Toxicity	

Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	-	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-
Microorganisms	LC ₅₀	72 hours	-	-	-	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	-	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	-	-
Other organisms		-				

12.2. Persistence and degradability



Page 11 of 16

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

Abioti	c degradat	ion		-			:			
	Degrad	ation half-li	ves		Method			Evaluatio	n	Note
Marine water	No inform	nation availa	able	No info	ormation availab	ole	No inform	nation ava	ailable	-
Fresh water	No inform	nation availa	able	No info	ormation availab	ole	No inform	nation ava	ailable	-
Air	No inform	nation availa	able	No info	ormation availab	ole	No inform	nation ava	ailable	-
Soil	No inform	nation availa	able	No info	ormation availab	ole	No inform	nation ava	ailable	-
Riode	gradation									
% Degradation	_	me (days)		N	//ethod		Evaluatio	n	N	Note
No information available		informa	tion	No informavailable	mation		o information	on	No informa available	ation
	cumulative	•								
		ent: n-octar	nol/w		-					
Value	Concentra		рН	°C	Method		Evalu			Note
	lo inforr vailable	mation -		-	No information available	1	No inform available	nation	-	
Riocor	ocentration	ı factor (BC	E)							
Value	icentration	Species	Γ)	<u> </u>	 Лethod		Evaluat	ion		Note
No information available	No information No information		tion	No information			No information available		No information available	
Chron	ic ecotoxic	ity				-				
Value	e	Dose		Exposure time	Species		Method	Eval	uation	Note
Chronic toxicity	on fish	LC ₅₀		o formation railable	No information available	1	o formation railable	No info availabl	rmation e	-
Chronic toxicity	/ on	EC ₅₀	N	0	No	No	o	No info	rmation	-
			_							_



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

amended by Regulation (EU) No. 2020/878

Page 12 of 16

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

crustac	ea (D	aphnia)		1	nforma availab		information available	available	
12.4.	Мо	bility in so	il						
	Knc	own or pre	dicted distribution	in environmer	ntal co	mpartı	ments:		
	No	informatio	on available						
	Sur	face tensic	on:						
		Value	°C	Concentrati	ion		Method		Note
		No information available		No information available		No info	ormation avai	lable	-
	Ads	<u> </u>	desorption /D coefficient						
Transpo	ort	•	enry's constant	log Kow	log Kow Evaporation rate		ation rate	Method	Note
			mation available	No informati on available		inform ilable	ation	No information available	1 -
Water-	air No information availabl		No information available		available		ation	No information available	-
Soil-air No inforr		No infor	mation available	No informati on available	available		ation	No information available	ı -
12.5.	Res	ults of PB1	Γ and vPvB assessm	ient					
	The	substance ording to	e/mixture does not REACH Article 57(f) U) 2018/605 at leve	contain comp	n Dele	egated			
12.6.	End	locrine dis	rupting 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.



Page 13 of 16

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

12.7.	Other adverse effects				
	No information available				
	ivo illottilation available				
SECTION	I 13. Disposal considerations				
13.1.	Waste treatment methods				
13.1.1.	3.1.1. Product/Packaging disposal:				
	Submit for disposal to the legar Protection.	al person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste designation	ons according to Law:			
	No information available	5			
13.1.3.	Waste treatment – relevant inf	formation:			
	No information available				
	i				
13.1.4.	Sewage disposal – relevant inf	ormation:			
	Waste must not be disposed of	of into the sewage system.			
13.1.5.	Other disposal recommendation	ons:			
	authorized by the ministry in o	t's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. Submit is authorized by the ministry in charge. Do not dispose of in places where			
13.1.6.	Relevant Community provision	ns:			
	-				
SECTION	1 14. Transport information				
	Transporting/shipment by road	(ADR)			
UN numb	oer:	Not subject to transport regulations.			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	nentally hazardous:	-			
Special p	recautions for user:	-			
	Transporting/shipment by rail (RID)				



amended by Regulation (EU) No. 2020/878

Page 14 of 16

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

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 (IMDG)			
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 (ICA	40-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		
	Authorizations: -		



Page 15 of 16

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

	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 793/9 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 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 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 10 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	



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

Page 16 of 16

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 to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classifi	cation	Classification procedure	
-		-	
16.5.	Relevant H statements (number and full text)		
	H: -	-	
16.6.	Training advice:	-	
		** "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



Page 1 of 17

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

SECT	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	LITHIUM CA	LITHIUM CARBONATE, LUXOL		
	Chemical name:	-			
	Catalogue number:	LKL-OT-X**			
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against		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 advi	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	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	person:	msds@b	msds@biognost.hr	
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection a	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 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	substance.	-
2.1.2.	Additional information		
<u> </u>	-		
*For fu	Ill text of Hazard- and EU Haza	ard-statements: see S	SECTION 16
2.2	Label elements		
	Product identification:	LITHIUM CARB	ONATE, LUXOL
	Identification number:	-	
	Authorization number:	-	
	Hazard pictograms:	-	



Page 2 of 17

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				
	Endocrine Disrupting Propert	ties:			
	No known endocrine disrupting	g properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not PBT or a vPvB.				

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	

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:	_	



Page 3 of 17

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	ON 5. Firefighting measures			
5.1	Extinguishing media			
	Suitable extinguishing media:	water spray, dry powder, CO ₂ 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 vicontaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.		

SECTIO	ON 6. Accidental release measur	res	
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 case of inadequate ventilation use adequate airways protective equipment (see Section 8).		
6.2	Environmental precautions:		
	Do not dispose of in sewage, dr Protection and Rescue Directora	ainage system and waterways. In case of large spillage contact National ate (NPRD) on 112.	
6.3	Methods and material for conta	inment and cleaning up	



Page 4 of 17

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 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:	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:		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 incompatibilities				
	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 sunlig			
	Packaging materials:	Manufactu	urer's original packaging.		
	Requirements for storage rooms and vessels: Keep away tightly close		ay from food and drink. Keep the containers osed.		
	The storage must be made of h must be resistant to chemicals.		ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.		



Page 5 of 17

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

	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. Expos	sure contr	ols/perso	nal pro	otectio	n				
8.1 Control p	arameters								
Substance	e	CA	S No		-		exposure limit term values		Biological limit values
					pp	om	mg/m³		, and the second
-			-			-	-	-	
				•				•	
Substance name:	-								
EC No:	-	CAS No	:	-					
DNEL									
				l	Indu	strial			
Route of	Acı	ıte		Acute			Chronic		Chronic
exposure:	effect	local	effec	ct syster	nic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
Critical physical pa	rameters: s	solubility,	flamma	ability, c	corro	sivity:	-		
				(Cons	umer			
Route of	Ad	cute		Acute			Chronic		Chronic
exposure:	effec	t local	effe	ct syster	mic		effect local		effect systemic
Oral	-		-			-			-
Inhalation			-			-			-
Dermal	-		-			-			-
PNEC									
Environmental pro	tection tar	get			P	PNEC			
Fresh water					n	o inform	nation available	ı	
Freshwater sedime	ents				n	no information available			
Marine water					n	o inform	nation available	ı	
Marine sediments					n	no information available			
Marine sediments					n	no information available			



Food chain

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

Page 6 of 17

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

no information available

Microorga	anisms in sewage treatment		no information available		
Soil (agric	:ultural)		no information available		
Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
			In accordance with Section 7.		
	Organisational measures to prever exposure:	nt	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exp	osure:	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				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
	Hand 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:	footwe entire t impern	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals 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 G			
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		



Page 7 of 17

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

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

1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	no information available/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 noctanol/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
.2	Other information		

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



Page 8 of 17

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

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

	xicological informati					
11.1 Informa	tion on hazard classes	as defined in	n Regulatio	on (EC) No 1272/2	2008	
Acute to	oxicity:	:		:		
Route of exposure:	Method	Species		LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure ti	me Results
Oral:	No information available	_	No info availabl	rmation e	-	-
Dermal:	No information available	_	No info availabl	rmation e	_	-
Inhalation:	No information available	_	No info availabl	rmation e	_	_
Specific	target organ toxicity -	- single expo	sure (STOT	SE):		
	Specific effects		Target o		organ Note	
Oral:	No information a	vailable	No information available		ilable	-
Dermal:	No information a	available		No information available		-
Inhalation:	No information a	vailable	No	information ava	-	
Acnirati	on hazard:	No	n informati	on available.		
Aspiration	on nazaru.	INC	Intomati	On available.		
Irritation	n and corrosion					
i i	Exposure 1	time	Species	Evaluation	Method	Note
Skin corrosion/irritation	on:	-		-	-	-
Serious eye damage/irritation	า -	-		-	-	-
Sensitiz	ation					
Skin sensitization		mation availa	ıble.			
Respiratory sensi		mation availa				



Page 9 of 17

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

Oral exposure:	No informa	tion available.						
Dermal exposure	e: No informa	ation available.						
Inhalation expos	ure: No informa	tion available.						
Eye exposure:	No informa	tion available.						
Repeate	ed dose toxicity (su	bacute, subchro	onic, chronic)	ı	·			
	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	-		



Page 10 of 17

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

Subacut	te oral	No information available			No information available	-
Subacut	te dermal	No information available			No information available	-
Subacut	te inhalation	No information available			No information available	-
Subchro	onic oral	No information available			No information available	-
Subchro	onic dermal	No information available			No information available	-
Subchro	onic inhalation	No information available			No information available	-
Chronic	oral	No information available			No information available	-
Chronic	dermal	No information available			No information available	-
Chronic	inhalation	No information available			No information available	-
		:				:
	CMR effects (c	arcinogenicity; mutagenicit	y; re	productive 1	oxicity)	
	Carcinogenicit	y:	Bas	sed on availa	ble data, the classification	criteria are not met.
	Mutagenicity i	n vitro:	Bas	sed on availa	ble data, the classification	criteria are not met.
	Genotoxicity:		Bas	sed on availa	ble data, the classification	criteria are not met.
	Mutagenicity i	n vivo:	Bas	sed on availa	ble data, the classification	criteria are not met.
	Germ cell muta	agenicity:	Bas	sed on availa	ble data, the classification	criteria are not met.
	Reproductive t		Bas	sed on availa	ble data, the classification	criteria are not met.
	Summary of properties:	evaluation of the CN	ЛR	Based on met.	available data, the classific	cation criteria are no
11.2	Information or	n other hazards:				
11.2.1.	Endocrine disr	upting properties:				
	The substance components of disrupting production (ST) Article 57(f) regulation (EU	e/mixture does not control on sidered to have endocrive perties according to REA or Commission Delegated 2017/2100 or Commission 2018/605 at levels of 0.1%	ine CH ed on			
11.2.2.	Other informat	tions:				
	_					

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



Page 11 of 17

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

Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	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 ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	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	-

О:	-	-1	_			-1	_		O	
к	\sim	$\boldsymbol{\alpha}$	Δ	\mathbf{n}	\mathbf{c}	$\boldsymbol{\alpha}$	2	TΙ	\sim	n

= 10 0.0 9.0.0.0	****			
% Degradation	Time (days)	Method	Evaluation	Note
No information available				



Page 12 of 17

Tradin	ng name:					LIT	THIUN	1 CARB	ONATE	, LUX	OL			
Produ	ct code:	L	_KL-OT-	X**		Date	of co	mpilatio	on: Z	21 De	c 2022	,	Version:	3
12.3	Bioaccu	mula	itive pote	ential										
12.0			•		icient ([log Kow])							
Valu			entratior		Н	°C		ethod		Evalua	ation		Note	
-	_			-			-		-			-		
		entra		tor (BCF)			4 .1			1				
	Value Species			No info	Method		No info	aluatio			Note			
	No information No information available available			availab		JΠ	availab		ווכ	-				
	Chronic	ecot	toxicity		1		1							
	Value			Dose		osure ime	Spe	ecies	Meth	od	Evalu	ation	Note	
					No		No		No		No			
Chroni	c toxicity o	on fis	sh L	C ₅₀	1	mation		mation	informa		informa		-	
					avail	able	availa	able	availab	le	availab	le		
	c toxicity o		E	C ₅₀	No infor	mation	No inforr	mation	No informa	ation	No informa	ation	-	
crustac	cea (Daphr	าเ <i>a</i>)			avail	able	availa	able	availab	le	availab	le		
12.4	1													
					on in e	environm	nental c	compart	ments:					
				abie										
			ion.	°C		oncentra	ntion		Metho	ı.d			Note	
	****		No										INULE	
	informa available			nation ble		informa ailable	tion	No inf availat	formation -		-			
			<u>.</u>					<u> </u>						
12.4	No informa	or pr rmati tensi ie	edicted of ion availation: No inforr	°C	on in e	environm oncentra informa	nental c	compart No inf	ments: Metho	nd	availab	ie	Note	



Page 13 of 17

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

	Adsorption / d	esorption				
Transpo	ort	oefficient s constant	log Kow	Evaporation rate	Method	Note
Soil-wat	ter No available	information	No information available	No information available	No information available	-
Water-a	nir No available	information	No information available	No information available	No information available	-
Soil-air	No available	information	No information available	No information available	No information available	-
12.5		/mixture does i	not contain compo			isrupting properties
	_		7(f) or Commission evels of 0.1% or h	n Delegated regulat igher.	ion (EU) 2017/2100	or Commission
12.6.	Endocrine disru	upting propert	ies			
	according to R	EACH Article 5	•	n Delegated regulat		isrupting properties or Commission
12.7	Other adverse	effects				
	No further rele	vant informati	on available.			
SECTIO	N 13. Disposal	consideration	S			
13.1		nent methods				
13.1.1.	Product/Pack	kaging disposa	l:			
	Submit for di Protection.	isposal to the l	egal person autho	rized by the Ministr	y of Environmental	and Nature
13.1.2.			tions according to			
	15 01 10*: Pa substances	ickaging that c	ontains residual ha	azardous substance	s or is contaminated	d with hazardous
13.1.3.	Waste treatm	nent – relevant	information:			
	No informati					
12.1.4	C		info			
13.1.4.	Sewage dispo	osal – relevant	information:			



Page 14 of 17

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

	Waste must not be disposed of into the sewage system.				
13.1.5.	Other disposal recommendations:				
	authorized by the ministry in o	's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. Submit is authorized by the ministry in charge.			
13.1.6.	Relevant Community provision	ns:			
	Disposal must be made accord	ling to official regulations.			
SECTION	14 TRANSPORT INFORMATION	ON CONTRACTOR OF THE CONTRACTO			
-	Transporting/shipment by road	(ADR)			
UN numb	per:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	entally hazardous:	-			
Special p	recautions for user:	-			
-	Transporting/shipment by rail (R	RID)			
UN numb	oer:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			
Environm	entally hazardous:	-			
Special p	recautions for user:	-			
	Inland waterway transport (ADN)			
UN numb	oer:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing group:		-			
Environmentally hazardous:		-			
Special precautions for user:		-			
-	Transporting/shipment by sea (I	MDG)			
UN numb	per:	Not subject to transport regulations			
UN prope	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing o	group:	-			



Page 15 of 17

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

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 enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);



Page 16 of 17

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

	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)		
Classifi	cation	Classification procedure		
-		-		
16.5.	Relevant H statements (numl	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 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	t
-	



amended by Regulation (EU) No. 2020/878

Page 17 of 17

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



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

Page 1 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION				
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

SECT	ION 1: Identification	of the substanc	e/mix	ture and of	the company/undertaking		
1.1.	Product identifier						
	Trade name:	LUXOL FAST BL	UE, SO	LUTION			
	Chemical name:	-					
	Catalogue number:	LFB-OT-X**	LFB-OT-X**				
1.2.	Relevant identified	uses of the subst	ance o	r mixture ar	nd uses advised against		
	Uses:			For use w	ith Luxol Fast Blue kit.		
	Uses advised again	st:		Only the i	dentified uses are advised.		
	Reason why uses a	dvised against:	ised against: The product is intended for use only as an <i>in vitro</i> diagrammedical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to it for other purposes.				
1.3.	Details of the suppl	ier of the safety o	data sh	eet			
	Supplier:		BioG	Gnost Ltd.			
	Address:		Medj	Medjugorska 59, Zagreb 385 1 2409997 385 1 2404039 nsds@biognost.hr			
	Telephone number	:	+385				
	Telefax:		+385				
	E-mail of competer	nt person:	msds				
	National contact:		-				
1.4.	Emergency telepho	ne numbers					
	National Protection	and Rescue Dire	ctorate	:	112		
	Medical informatio	n:			+385 1 2348 342		
	Other information:				-		

SECTION 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 statement*:	
	Flam. Liq. 2		H225	
2.1.2.	Additional information			
	-			
*For full text of Hazard- and EU Hazard-statements: see Section 16.				
2.2.	Label elements			
	Product identification:	LUXOL FAST E	BLUE, SOLUTION	
	Identification number:	_		



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

Page 2 of 17

Trade name:		LUXOL FAST BLUE, SOL	.UTION	<u> </u>	
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

	Authorisation number:	-	
	Hazard pictograms:	GHS02	
	Signal word: Danger		
	Warning statement:	H225 Highly flammable liquid and vapor.	
	Precautionary statement:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. 	
	Supplemental hazard information (EU):	-	
2.3.	Other hazards		
	Endocrine Disrupting Properties: No known endocrine disrupting properties Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.		

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

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.	



Page 3 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION				
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

	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.	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 med	ical 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 th	e 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



Page 4 of 17

Trade name:		LUXOL FAST BLUE, SOL	UTION		
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

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:			
	Self-contained open-circuit compressed air breathing apparatus, a set for protecting the body from heat dissipation (fireproof clothing).			
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	ainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials		
6.3.2.	Cleaning up:	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			
	See Section 7 for information on safe handling.			
		n personal protection equipment.		
İ	See Section 13 for disposal information.			

SECTIO	ION 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.				



Page 5 of 17

Trade name:		LUXOL FAST BLUE, SO	LUTION		
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

7.2.	Conditions for safe storage, including a	ny incompatibilities
	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	SECTION 8. Exposure controls/personal protection						
8.1. Control para	meters						
Substance	rance CAS No		Occupational exposure limit values/short term values		Biological limit values		
			ppm	mg/m³			
Ethanol	64-17-	5 1	000/-	1900/-	No information available		
Substance:	-						
EC No:	-	CA	CAS No: -				
DNEL	DNEL						
		Indus	strial				
Route of exposure:	Acute	Acute	Chronic		Chronic		
Route of exposure.	effect local	effect systemic		effect local	effect systemic		
Oral	-	-	-		-		
Inhalation	1900 mg/m³ (ethanol)	-	-		380 mg/m³ (ethanol)		
Dermal	Dermal		-		343 mg/kg (ethanol)		
Critical physical param	Critical physical parameters: solubility, flammability, corrosivity:						
	Consumer						
Route of exposure:	Acute	Acute		Chronic	Chronic		
Route of exposure:	effect local	effect systemic		effect local	effect systemic		



Page 6 of 17

							Page 6 of 17
Trade n	ame:			LUXOL F	AST BLUE, SO	LUTION	
Product	t code:	LFB-OT-X**		Date of o	compilation:	14	Nov 2022 Version: 5
0 1							07 (1 1 (1 1 1)
Oral		950 mg/m ³	-		-		87 mg/kg bw/day (ethanol)
Inhalatio	on	(ethanol)	-		-		114 mg/m³ (ethanol)
Dermal		-			-		206 mg/kg (ethanol)
PNEC							
Environn	mental prot	tection target		PNEC			
Fresh wa	ater			0.96 mg/l (ethanol)		
Freshwa	ter sedime	nts		3.6 mg/kg	(ethanol)		
Marine v	water			0.79 mg/l (ethanol)		
Marine s	sediments			2.9 mg/kg	(ethanol)		
Food cha	ain			380-720 m	g/kg (ethanol)		
Microorg	Microorganisms in sewage treatment			580 mg/l (6	ethanol)		
Soil (agr	Soil (agricultural)			0.63 mg/kg (ethanol)			
Air				no information available			
8.2.	Exposure	e controls					
8.2.1.	Appropr	iate engineering cor	ntrols				
	measure	ce/mixture related is to prevent exposu dentified uses:	re	Do not eat, o		n the wo	rkspace. Use personal
	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	al 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	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			sk that covers the entire face
8.2.2.2.	Skin pro	tection	2				
		Prof		standard EN	374.		e EU Directive 2016/425/EEC
	Hand pr	otection:		Glove material: nitrile rubber Glove thickness: ≥0.50 mm			
				Break through time: >480 min			
			Dreak infough time. >400 min				



Page 7 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION				
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

	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 ava	ailable	
8.2.3.	Environmental exposure co	ontrols		
	Substance/mixture related measures to prevent exposure:		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 prev	ent exposure:	See Section 6	

9.1.	Information on basic physical and	I 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
	Lover 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
	Vapour pressure:	No information available	no information available



Page 8 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION				
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

	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, alkali 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.

N 11. Toxicological inf	ormation					
Information on hazard classes as defined in Regulation (EC) No 1272/2008						
Acute toxicity:	Acute toxicity:					
Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results		
-	rat	LD ₅₀	-	7.060 mg/kg (ethanol)		
-	rabbit	LD ₅₀	-	>20.000 mg/kg (ethanol)		
n: -	rat	LC ₅₀	4 h (ethanol)	>8.000 mg/l (ethanol)		
	Information on hazard Acute toxicity:	Information on hazard classes as defined Acute toxicity: Method Species - rat - rabbit	Information on hazard classes as defined in Regulation (EC) Acute toxicity: Method Species Fiffective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture} - rat LD ₅₀ - rabbit LD ₅₀	Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity: Method Species Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture} rat LD ₅₀ - rabbit LD ₅₀ -		

	Specific effects	Target organ	Note
Oral:	No information available	No information available	-
Dermal:	No information available	No information available	-
Inhalation:	No information available	No information available	-

Aspiration hazard:	No information available



Page 9 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION					
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5	

Irritation ar	nd co	rrosion					
		Exposure 1	time Speci	es	Evaluation	Metho	d Note
Skin corrosion/irritat	tion	No informatio available	n No info available		No information available	No informatio available	n -
Serious eye damage/irritation		No informatio available	n No info available		No information available	No informatio available	n -
Sensitization							
Skin sensitizatio	n:	No informa	ation available				
Respiratory sensitization:			ation available				
		i					
Symptoms re	elated	I to the physic	cal, chemical and to	xicological	characteristics		
Oral exposure:		Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.					
Dermal exposur	re:	_	on. After short expo lrying, cracking and		•	ot likely. Long-ter	m exposure
Inhalation exposure:			f large amounts of v neezing, headache a	•		ted perimeter ma	y cause
Eye exposure:		Direct eye co	ontact may cause sl	ight to mod	derate irritation, la	crimation and bur	ning
Deposted do	co to	vi situ (sub s sut	to subsbronis sbro	unia)			
Repeated do	se to	Dose	te, subchronic, chro Exposure time	Species	Method	Evaluation	Note
Subacute oral		ormation	No information available	No information	No	No information available	-
Subacute dermal		ormation [No information available	No information	No information available	No information available	_
Subacute inhalation		ormation	No information available	No information	No information available	No information available	-
Subchronic oral		ormation	No information available	No information	No information available	No information available	_



Page 10 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION				
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

Subchronic dermal	No information available	No information available	No information available	No information available	No informatio available	on -
Subchronic inhalation	No information available	No information available	No information available	No information available	No informatic available	n -
Chronic oral	No information available	No information available	No information available	No information available	No informatic available	n -
Chronic dermal	No information available	No information available	No information available	No information available	No informatic available	n -
Chronic inhalation	No information available	No information available	No informatior available	No information available	No informatic available	n -
1						
Specific targ	get organ toxicity	- repeated exposure				1
		Specific effe		Target organ		Note
Subacute oral		No information available		The initiation available		-
Subacute dern	nal	No information available		No information a	vailable	-
Subacute inha		No information available				-
Subchronic ora	al	No information available		No information a	vailable	-
Subchronic de		No information available		No information a		-
Subchronic inhalation		No information available		No information a		-
		No information available		No information a		-
Chronic oral		No information available		No information available		_
Chronic oral Chronic derma						
Chronic oral		No information avail		No information a	vailable	-
Chronic oral Chronic derma Chronic inhala	tion	No information avail	able		vailable	-
Chronic oral Chronic derma Chronic inhala	tion (carcinogenicity		able uctive toxicit		vailable	-
Chronic oral Chronic derma Chronic inhala CMR effects Carcinogeni	tion (carcinogenicity city:	No information avail	uctive toxicit	у)	vailable	-
Chronic oral Chronic derma Chronic inhala CMR effects	tion (carcinogenicity city: y in-vitro:	No information avail	uctive toxicit No info No info	y) rmation available	vailable	-
Chronic oral Chronic derma Chronic inhala CMR effects Carcinogeni Mutagenicit	tion (carcinogenicity city: y in-vitro:	No information avail	uctive toxicit No info No info No info	y) rmation available rmation available	vailable	-
Chronic oral Chronic derma Chronic inhala CMR effects Carcinogeni Mutagenicit Genotoxicity Mutagenicit	tion (carcinogenicity city: y in-vitro:	No information avail	uctive toxicit No info No info No info No info No info	y) rmation available rmation available rmation available	vailable	-



Page 11 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION				
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

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. E	cological i	nformation				
12.1. Toxici	ity					
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Fish	No information available	8.140 mg/l (ethanol)	_
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants:	IC ₅₀	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 ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2.	Per	Persistence and degradability							
	Abi	Abiotic degradation							
		Degradation half-lives	Method	Evaluation	Note				
Marine water		No information available	No information available	No information available	-				



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

Page 12 of 17

Trade nam	e:				LU	XOL FAST BLU	JE, SC	LUTION	1		
Product co	de:	LFB-OT-X	LFB-OT-X** Date of c			te of compilat	ion:	14	Nov 2022	Version:	5
Fresh water	No i	nformation a	vailab	le	No info	ormation ble		information	on -		
Air	No i	nformation a	vailab	le	No info	ormation ble		nformation	on -		
Soil	No i	nformation a	vailab	le	No info	ormation ble		nformation	on _		
Biodegra	dation										
% Degrada		Time (d	ays)		N	/lethod		Evaluatio	n	Note	
-	-			-			-		-		
12.2	D:		44:	_1							
12.3.		cumulative po ol-water part			ant (log l	(ow)					
Value		oncentration	ition (рН	°C	Method		Fyal	uation	Note	
- Value		Oncentiation		- -	-			-	-	Note	
								!			
Віосо	ncentra	ation Factor (BCF)								
Value		Spec	ies			Method		Eva	luation	Note)
No information available		lo informatio	n avai	ilable	No information availab		No information available			-	
Chronic e	ecotoxi	city					1			-	
Value		Dose	E	xposure	e time	Species	М	ethod	Evaluation	n Not	te
Chronic toxi on fish	icity	LC ₅₀		inform ailable	ation	No information available		rmation lable	No information available	n -	
Chronic toxicity on crustacea (Daphnia)		EC ₅₀		No information		No information available	No information available		No information available	1 -	
12.4. Mo	obility i	n soil									
	own o	r predicted di	stribu	ition in	environr	mental compartr	ments:				



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

amended by Regulation (EU) No. 2020/878

Page 13 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION					
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5	

	Surface tension: Value	°C	Co	ncentration	Me	thod		Note	
			information No information		nformation	Method No information - available		-	Note
Adso	rption / desorption								
Transpo	A/D coeffi Henry's cor		log Kov	٧	Evaporatio	n rate	٨	1ethod	Note
Soil-Wa	nter No inf available	ormation	No informa available	ation	No informat available	tion	No inta	formation ble	-
Water-A	Air No inf available	ir		ation	No informat available	tion	No information available		-
Soil-Air	No inf available	ormation	No informa available	ation	No informat available	tion	No information available		-
12.5.	Results of PBT and	vPvB asse	ssment						
	Based on available			s not o	contain any Pl	BT or vF	vB subs	tances.	
	:								
12.6.	Endocrine disruptir	ng propert	ies						
	Based on available	data, does	not contain	endo	crine disrupto	ors.			
12.7	Other deserves offe	-4-							
12.7.	Other adverse effects		tod						
	No adverse effects	are expec	icu.						
SECTIO	N 13. Disposal cons	ideration	s						
13.1.	Waste treatment m								
13.1.1.	Product/Packagin	g disposal							
13.1.1.	Submit for dispos	al to the le	egal person a	uthor	ized by the M	linistry	of Enviro	onmental ar	d Nature
	Protection.								
13.1.2.	Waste codes/wast	te designa	tions accordi	ing to	Low:				



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

Page 14 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION					
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5	

13.1.3. Waste treatment – relevant	information:				
No information available					
13.1.4. Sewage disposal – relevant	information:				
Waste must not be dispose	d of into the sewage system.				
13.1.5. Other disposal recommend	ations:				
authorized by the ministry	uct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. Submit tors authorized by the ministry in charge.				
13.1.6. Relevant Community provis	sions:				
Disposal must be made acc	ording to official regulations.				
SECTION 14. Transport information					
Transporting/shipment by road (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 (RI	D)				
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 inland	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 (IN	IDG)				



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

Page 15 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION							
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5			

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	FION 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: -					



Page 16 of 17

Trade name:	LUXOL FAST BLUE, SOLUTION					
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5	

	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds guideline)				
	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	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

Page 17 of 17

Trade name:	LUXOL FAST BLUE, SOL		JTION		
Product code:	LFB-OT-X**	Date of compilation:	14 Nov 2022	Version:	5

16.3.	Key literature references and source of data:			
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classific	fication		Classification procedure	
-			-	
16.5.	Relevant 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:	-	
	16.7. Further information:		** "X" in the product code marks different volumes (different packaging of the product)	
16.7.			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
7 ii ii i = 2 ii
] -