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Trading name:	BLUING REAGENT			
Product code:	BR-OT-X**	Date of compilation:	23 January 2023	Version: 7

1.1.		ON 1: Identification of the substance/mixture and of the company/undertaking Product identifier			
1.1.		DI LUNIC DE	DILLING DEACENT		
	Trading name:	BLUING RE	BLUING REAGENT		
	Chemical name:	BR-OT-X**			
	Catalogue number:				
1.2.	Relevant identified uses of the substance or mixture and uses advised against			ture and uses advised against	
	Uses:		For conver	sion of red hematoxylin stained nuclei to blue.	
	Uses advised against:		Only the id	lentified uses are advised.	
	Reason why uses adv	The product is intended for use only as an <i>in v</i> . why uses advised against: medical device, registered at the Agency for M Medical Devices and there is no reason to use			
1.3.	Details of the supplie	r of the safety	data sheet		
	Supplier:	В	ioGnost Ltd.		
	Address:	N	Medjugorska 59, Zagreb		
	Telephone number: +		+385 1 2409997		
	Telephone number:	+	385 1 240999	97	
	Fax no.:		385 1 240999 385 1 240403		
	•	+		39	
	Fax no.:	+	385 1 240403	39	
1.4.	Fax no.: e-mail of competent	person: m	385 1 240403	39	
1.4.	Fax no.: e-mail of competent National contact:	person: m - e number	385 1 240403 nsds@biogno	39	
1.4.	Fax no.: e-mail of competent National contact: Emergency telephone	person: m - e number	385 1 240403 nsds@biogno	39 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 substance				
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-s	tatements: see Section 16			
2.2.	Label elements				
	Product identification:	BLUING REAGENT			
	Identification number: -				
	Authorization no.:	-			
	Hazard pictograms:	Hazard pictograms: -			



Endocrine Disrupting Properties:

No known endocrine disrupting properties.

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Signal v	vord:	-		
Hazard	statements:	-		
Precaut	ionary statements:	-		
Supplemetal hazard information (EU):		-		
2.3. Other h	azards			

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	ON 4. First aid measures			
4.1.	Description of first aid measures			
	General notes:		-	
	Following inhalation:		Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.	
	Following skin contact: Following eye contact:		Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.	
			Rinse out with plenty of water with the eyelid held wide open using lean fingers. If the symptoms remain, immediately call a physician.	
	Following ingestion:		Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.	
	Self-protection of the first aider:		Treat symptomatically.	
4.2.	Most important symptoms and effects, both acute and delayed		ects, both acute and delayed	
	Following inhalation:	No i	nformation available	
	Following skin contact: No i		information available	
	Following eye contact: No i		information available	
	Following ingestion: No in		nformation available	
4.3.	Indication of any immediate	medic	al attention and special treatment needed	



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SECTION	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			
	Unsuitable extinguishing media: water jet			
5.2.	Special hazards arising from the substance or mixture			
	Hazardous combustion products: No information available			
5.3.	Advice for firefighters			
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.			
5.4.	Additional information			
	Remove sources of heat and ignition.			
	Do not contaminate the environment with extinguishing media.			

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



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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sectio	ns
	See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment. See Section 13 for information about containment.	

SECTIO	SECTION 7. Handling and storage							
7.1.	Precautions for safe handling							
7.1.1.	Protection measures	Protection measures						
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.					
	Measures to prevent aerosol and dust generati	on:	Secure proper ventilation.					
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.					
	Other measures:		-					
7.1.2.	Advice on general occupational hygiene:							
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.							
7.2.	Conditions for safe storage, including any incompatibilities							
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a ventilated storage rooms, and away from sources of a sunlight, and other incompatible substances.						
	Packaging materials:	Manı	ufacturer's original packaging.					
	Requirements for storage rooms and vessels:		away from food and drink. Keep the containers ly closed.					
	Advices for storage equipment:	The storage must be made of hard material; floors m be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation. 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 (Section 9).						
	Further information on storage conditions:							
7.3.	Specific end use(s)							



Soil (agricultural)

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	nendations:	• • • • • • • • • • • • • • • • • • • •			-			
Industri	al sector spe	ecific solution	ns:		-			
SECTION 8. Exp	ocuro contr	ols/porsons	al protoci	tion				
	parameters	ois, personi	ai protect	CIOII				
	•			Occu	pational e	exposure limit		
Substan	ce	CAS I	No		•	term values	Biolo	gical limit values
				р	pm	mg/m³		
-		-			-	-	No informa	ation available
Substance - name:								
EC No: -		CAS No:	_					
DNEL								
				Ind	ustrial			
Route of exposu	re.	Acute Acu		Acute	!	Chronic		Chronic
Noute of exposur	eff	effect local effe		ct syst	emic	effect local		effect systemic
Oral	-		-			-	-	-
Inhalation	-		-			-		-
Dermal	-		-			-	-	-
Critical physical p	parameters:	solubility, fla	ammabilit	y, corr	osivity:	-		
			ı	Con	sumer			
Route of exposu	re·	Acute ect local	offo	Acute ct syst		Chronic effect local		Chronic effect systemic
Oral	-	ect iocai	-	ct syst	erriic	- effect local		. enect systemic
Inhalation	_		_			_		
Dermal	_		_			_		
PNEC								
Environmental p	rotection tar	get			PNEC			
Fresh water					No information available			
Freshwater sediments					No inforr	mation availabl	e	
Marine water					No information available			
Marine sediments					No information available			
Food chain					No inforr	nation availabl	e	
Microorganisms in sewage treatment					No information available			

No information available



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Air			No information available					
8.2.	Exposure controls							
8.2.1.	Appropriate engineering controls							
	Substance/mixture relate measures to prevent expeduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.					
	Structural measures to preexposure:	event	No information available					
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.					
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.					
8.2.2.	Personal protection equip	oment						
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.					
8.2.2.2.	Skin protection							
			ective gloves must be according to the EU Directive 2016/425/EEC and dard EN 374.					
	Hand protection:		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 es (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 inf	ormation available					
8.2.3.	Environmental exposure	controls						
	Substance/mixture relate measures to prevent expe		See Section 6					
	Structural measures to preexposure:	event	Use modern equipment.					
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.					
	Technical measures to pr exposure:	event	See Section 6					

SECTION 9. Physical and chemical properties



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	Value	Method	
Physical state:	liquid	No information available	
Color:	ight blue	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:	>8.0	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	

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

SECTION 11. Toxicological information



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	n on hazard classes as	defined in Regi	ulation (EC) No 127	72/2008			
Route of exposure:	Method Species		Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure t	ime Results		
Oral exposure:	No information available	_	LD ₅₀	-	-		
Dermal exposure:	No information available	-	LD ₅₀	-	-		
Inhalation exposure:	No information available	-	LC ₅₀	-	-		
Specific ta	rget organ toxicity – si	ingle exposure (STOT SE):				
-	Specif	ic effects	Target	: organ	Note		
Oral exposure:	No information	available	No information	on available	-		
Dermal exposure:	No information	available	No information	on available	-		
Inhalation exposure	: No information	available	No information available -				
	i		:		i		
Aspiration	hazard:	No infor	rmation available				
· ·		i					
Irritation a	nd corrosion:						
;	Exposure time	Species	Evaluation	Method	Note		
Skin irritation:	-	-	-				
Eye irritation:	-	-	_				
,		!		<u> </u>			
Sensitization	on						
Dermal exposure:	No information avail	lable					
Inhalation exposure:	No information available						
-	:						
Symptoms	related to the physica	al, chemical and	toxicological chara	cteristics			
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 exposure:		•	ure, resorption effe ngling sensation o		ely. Long-term exposure		



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Inhalation expos	IIre.		large amount eezing, heada	•		dequately vent	ilated perimete	er may cause
Eye exposure:		Direct eye co sensation.	ntact may cause slight to moderate irritation, lacrimation and burning					
Repeate	ed dose	toxicity (sub	acute, subchro	onic, chronic	c)			
į '		Dose	Exposure time	Species	,	Method	Evaluation	Note
Subacute oral	No i availal	nformation ble	No information available	No information available	on	No information available	No information available	-
Subacute dermal	No ii availal	nformation ble	No information available	No information available	on	No information available	No information available	-
Subacute inhalation	No ii availal	nformation ble	No information available	No information available	on	No information available	No information available	-
Subchronic oral	No i availal	nformation ble	No information available	No information available	on	No information available	No information available	-
Subchronic dermal	No i availal	nformation ble	No information available	No information available	on	No information available	No information available	-
Subchronic inhalation	No ii availal	nformation ble	No information available	No information available	on	No information available	No information available	-
Chronic oral	No ii availal	nformation ble	No information available	No information available	on	No information available	No information available	-
Chronic dermal	No ii availal	nformation ble	No information available	No information available	on	No information available	No information available	-
Chronic No inhalation avai		nformation ble	No information available	No information available	on	No information available	No information available	-
Specific	target (organ tovicit	y – repeated e	YNOSURA (ST	TOT RI	=).		
Specific	. target (pecific effects			Target org	an	Note
Subacute oral			tion available		No in	No information available -		
Subacute derma	I	No informa	ntion available		No information available -		ilable -	
Subacute inhalat	ion	No informa	ntion available		No in	formation ava	ilable -	



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Subchro	onic oral	No information	on available	No ir	nformation available	-		
Subchro	onic dermal	No information	on available	No ir	nformation available	-		
Subchro	onic inhalati	on No information	on available	No ir	nformation available	-		
Chronic	oral	No information	on available	No ir	nformation available	-		
Chronic	dermal	No information	on available	No ir	nformation available	-		
Chronic	inhalation	No information	on available	No ir	nformation available	-		
	CMR effec	ts (carcinogenicity;	mutagenicity; reprod	ductive to	oxicity)			
	Carcinoge	nicity:	Current studies o	udies on test animals did not indicate carcinogenic effects.				
	Mutagenio	city in-vitro:	Current in vitro	Current in vitro tests did not indicate mutagenic effects.				
	Genotoxic	ity:	No information a	No information available				
	Mutagenio	city in-vivo:	Current in vivo	Current <i>in vivo</i> tests did not indicate mutagenic effects.				
	Germ cell	mutagenicity:	No information a	o information available				
	•			on reproductive organs was determined in reproductive				
	Summary of evaluation of the CMR properties: -							
	•							
11.2.	Informatio	n on other hazards	:					
11.2.1.	Endocrine	disrupting properti	es:					
	No known	endocrine disrupti	ng properties that af	fect hum	an health.			

SECTION 1	12.	Ecological	information
52011011		_co.og.ca.	oac.o

Other informations:

11.2.2.

12.1. Toxicity Exposure Acute toxicity Dose **Species** Method Evaluation Note time No information No information Fish LC_{50} 96 hours available available No information No information EC₅₀ Crustacea: 48 hours available available No information No information Algae/aquatic plants IC_{50} 8 days available available Microorganisms 72 hours LC_{50} Chronic (long-term) Exposure Dose **Species** Method Evaluation Note toxicity time



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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	-

Riad	arac	dation

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

12.3. Bioaccumulative potential

Octanol-water partition coefficient (log Kow)

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

ыосопсен	itration factor (BCF)			
Value	Species	Method	Evaluation	Note



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No info availabl	information No informilable available		nation No information available			No information available			No information available		
	Chronic	ecotoxi	icity								
	Value		Dose		osure me	Species	Met	hod	Eval	uation	Note
Chronic	toxicity o	on fish	LC ₅₀	No infori availa	mation able	No information available	No informa availab	ation i	No nform availab		-
	toxicity on the toxicity of th		EC ₅₀	No infori availa	mation able	No information available	No information available		_		
12.4.	Mobility	y in soil									ı
	Known	or predi	cted distributi	on in e	environme	ental compart	ments.				
		······				entar compan					
			available				inches.				
	Surface	tension	available :			I					
		tension ie	available	Co	oncentrat informat ilable	ion	Metho		-	N	ote
	Surface Valu No informa	tension ie	available : °C No information	Co	oncentrat	ion No inf	Metho		_	N	ote
	Surface Valu No informa available	tension ue tion e	available : °C No information	Co	oncentrat	ion No inf	Metho		-	N	ote
Transpo	Surface Valu No informa available Adsorpt	tension ue ution e tion / de	available :	No ava	oncentrat	ion No inf	Metho Formation ole			N	ote
Transpo Soil-wa	Surface Valu No informa available Adsorpt ort No	tension ue ution e tion / de A/D co Henry's	available : °C No information available esorption pefficient	No ava	informat ilable og Kow	ion No inf availal	Metho formation ole on rate	1	hod		
	Surface Valu No informa available Adsorpt ort ter No ava No	tension ue tion / de A/D co Henry's ailable	available :	No ava	information of the contract of	ion No infavailal Evaporati No informavailable	Methorical	Met No infor	hod	n -	



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12.6.	Endocrine disrupting propertie	
12.0.		ng properties that affect the environment.
	TVO KNOWN CHAOCHINE disruptin	g properties that uncer the environment.
12.7.	Other adverse effects	
	No adverse effects are expected	ed.
SECTION	N 12 Disposal considerations	
	N 13. Disposal considerations	
13.1.	Waste treatment methods	
13.1.1.	Product/Packaging disposal:	
	Submit for disposal to the le Protection.	gal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste designat	ions according to Law:
	No information available	
	:	
13.1.3.	Waste treatment – relevant i	nformation:
	No information available	
13.1.4.	Sewage disposal – relevant i	
	Waste must not be disposed	I of into the sewage system.
13.1.5.	Other disposal recommenda	tions:
	authorized by the ministry in	ct's remains into the sewage system. Submit the remains to the collectors of charge. Do not dispose of the packaging into the sewage system. Submit for authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community provisi	ons:
	-	
SECTIO	N 14. Transport information	
	Transporting/shipment by road	d (ADR)
UN num	nber:	Not subject to transport regulations.
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-



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		······································					
Packing group:		-					
Environmentally hazardous:		-					
Special precautions	for user:	-	-				
Transporti	ng/shipment by rai	l (RID)					
UN number:		Not subject to transport	Not subject to transport regulations.				
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Inland wat	erway transport (A	DN)					
UN number:		Not subject to transport	regulations.				
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Transportii	ng/shipment by sea	a (IMDG)					
UN number:		Not subject to transport	regulations.				
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Transportii	ng/shipment by air	(ICAO-TI/IATA-DGR)					
UN number:		Not subject to transport	regulations.				
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Further information	: The produc	t is not subject to classification	on.				



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15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations		
	Authorization and/or restrictions of use		
	Authorizations:	-	
	Restrictions:	-	
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);	
	Information according 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:	-	
		PBT	Stable, bioaccumulative and toxic
		vPvB	Strongly stable and strongly bioaccumulative.
16.2.	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%
		LC ₅₀	Lethal concentration, 50%
		STOT-SE	Specific target organ toxicity - single exposure



SAFETY DATA SHEET

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

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Trading name:	BLUING REAGENT			
Product code:	BR-OT-X**	Date of compilation:	23 January 2023	Version: 7

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	cation	Classification procedure
_		-
16.5.	5. Relevant H statements (number and full text)	
	H: -	-
16.6.	Training advice:	-
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario resulting to Chemical safety assessment
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