

LEUKOGNOST PAS

The kit contains:

Reagent 1 (Periodic acid, LeukoGnost)

Reagent 2 (Sodium metabisulfite, LeukoGnost)

Reagent 3 (HCL reagent, LeukoGnost)

Reagent 4 (BioSchiff Forte reagent)



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

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Trading name:	PERIODIC ACID, LEUKOGNOST				
Product code:	PKL-OT-X**	Date of compilation:	21 Dec 2022	Version:	1

1.1.	Product identifier				
	Trading name:	PERIODI	C ACID, LEUKO	OGNOST	
	Chemical name:	-			
	Catalogue number:	PKL-OT-	X**		
1.2.	Relevant identified us	es of the su	ıbstance or mi	xture and uses advised against	
	Uses:		For use w	rith special staining kits.	
	Uses advised against:		Only the i	identified uses are advised.	
	Reason why uses adv	ised against	:: medical d	uct is intended for use only as an <i>in vitro</i> diagnostic levice, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes	
1.3.	Details of the supplier of the safety data sheet				
	Supplier: B		BioGnost Ltd.	BioGnost Ltd.	
	Address:		Medjugorska	Medjugorska 59, Zagreb	
	Telephone number:		+385 1 24099	+385 1 2409997	
	Fax no.:		+385 1 2404039		
	e-mail of competent	person:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone number				
	National Protection a	National Protection and Rescue Dire		112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2 HAZARDS INFORMATION				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)				
	Hazard class and category code: Hazard statements*:				
	Not identified as hazardous subst	ance.	-		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	itements: see Se	ction 16		
2.2.	Classification according to EC Dire	ective Nr. 1272/2	2008 CLP)		
	Product identification:	PERIODIC ACII	D, LEUKOGNOST		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Further information:	-		
2.3.	Other hazards			
	Endocrine Disrupting Properties	s:		
	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 CO	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS							
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
-	-	-	-	-				

SECTIO	ON 4 FIRST AID MEASURES	
4.1.	Description of first aid measu	ires
	General notes:	-
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.
	Self-protection of the first aid	der: Treat symptomatically.
4.2.	Most important symptoms ar	nd effects, both acute and delayed
	Following inhalation:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.
	Following skin contact:	Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure may cause drying, cracking and tingling sensation of skin.



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	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.
	Following ingestion:	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.
4.3.	Indication of any immedia	te medical attention and special treatment needed
	-	

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

SECTIO	ON 6 ACCIDENTAL RELEASE MEASU	JRES			
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 (see Se	ection 8).			
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drain Protection and Rescue Directorate	nage system and waterways. In case of large spillage contact National (NPRD) on 112.			



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6.3.	Methods and material for cor	ntainment 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	
	-	

SECTIO	ON 7 HANDLING AN 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: Measures to protect the environment: Other measures:		Secure proper ventilation.			
			Prevent spilling into the sewage system and waterways.			
			-			
7.1.2.	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: ver		Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.			
	Packaging materials:	Man	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:		Keep away from food and drink. Keep the containers ightly closed.			
	Advices for storage equipment: be		storage must be made of hard material; floors must esistant to chemicals. There must be no drain that ctly leads into sewage system. Secure proper ilation.			
	Further information on storage conditions:	and chen	not place the unused material in the storage room do not use empty containers for storing other micals. Do not store with incompatible materials (see ion 9).			



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7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8 EX			TROLS/PER	SONAL	PROT	ECTION			
8.1. Control parameters Substance					ccupational exposure limit		Ric	ological limit values	
3003	Substance		CAST	NO		ppm	mg/m³		nogical littit values
-	-		-			-		No infor	mation available
					I.	1		•	
Substance name:	_								
EC No:	-		CAS No:	-					
DNEL									
					Inc	dustrial			
Route of exposure:			Acute ect local	effe	Acut	e temic	Chror effect l	-	Chronic effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
Critical physic	al parar	neters: s	solubility, fla	mmabilit	ty, cor	rosivity:	-		
					Co	nsumer			
Route of		Þ	Acute		Acut	e	Chror	nic	Chronic
exposure:		effe	ect local	effect systemic		temic	effect local		effect systemic
Oral		-		-			-		-
Inhalation		-		-			-		-
Dermal		-		-			-		-
PNEC									
Environmenta	protec	tion tar	get			PNEC			
Freshwater	dina+					No information available			
Freshwater sediments					No information available				
Marine water Marine sediments				No information available No information available					
Food chain							mation availab		
	ns in se	wage tr	eatment				mation availab		
Microorganisms in sewage treatment					140 mioritation available				



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Soil (agric	cultural)			No information available			
Air				No information available			
8.2.	Exposure controls	Exposure controls					
8.2.1.	Engineering measures						
	Substance/mixture related measures to prevent expoduring identified uses:			product in well ventilated rooms. Use personal protective lent. Do not eat, drink or smoke in the workspace.			
	Structural measures to pr exposure:	event	No info	rmation available			
	Organisational measures prevent exposure:	to		ration of work in order to reduce other worker's influence work process.			
	Technical measures to prevent exposure:			proper workspace ventilation in order to keep tration levels in air below permitted levels.			
8.2.2.	Personal protection equip	ment					
8.2.2.1.	Eye and face protection:	Eye and face protection: Safety glasses that stick to face (preventing splashin visor.					
8.2.2.2.	Skin protection						
			ective gloves must be according to the EU Directive 2016/425/EEC and dard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:	Wear antistatic		clothing made of natural fibers (such as cotton) with long 34), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter fo	or organi	ace mask (EN 136) or half mask (EN 140) equipped with a c vapors, type "A" (boiling point >65°C) acording to EN then concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No info	ormation	available			
8.2.3.	Environmental exposure of	controls					
	Substance/mixture related measures to prevent expo		See Sec	tion 6			
	Structural measures to pr exposure:	event	Use mo	dern equipment.			
	Organisational measures prevent exposure:	to	Adapt t workpla	he work process to the required working conditions of the ace.			
	Technical measures to pre exposure:	event	See Sec	tion 6			



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1.	Information on basic physical and che	mical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	no odor/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	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

SECTIO	ECTION 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:	With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.			
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.			
10.5.	Incompatible materials:	Aluminum.			
10.6.	Hazardous decomposition products:	No information available.			



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11.1. Informatio	n on hazard classes as	defined in Regu	lation (EC) No 127	72/2008	
Acute toxic					
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	rget organ toxicity – si	ngle exposure (S	TOT SE):		
	Specifi	ic effects	Target	organ	Note
Oral exposure:	No information	available	No information	on available -	
Dermal exposure:	No information	available	No information available		
Inhalation exposure	: No information	available	No information	No information available -	
Respirator	y irritation:	No infor	mation available		
Irritation a	nd corrosion				
	Exposure time	Species	Evaluation	Method	Note
Skin irritation:	-	rabbit	-		
Eye irritation:	-	rabbit	-		
Sensitizatio	on				
Dermal exposure:	No information avail	able			
Inhalation exposure:	No information avail	able			
Symptoms	related to the physica	ıl, chemical and t	oxicological 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.				
Orai exposure.			icare breathing. Fing.	10. 10.00.5 01	



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Inhalation expos	IIre.	•	of large amounts of vapors in inadequately ventilated perimeter may cause sneezing, headache and nausea.						
Eye exposure:	Direct ey sensation	-	ontact may cause slight to moderate irritation, lacrimation and burning						
Repeate	ed dose toxicity (subacute, subchro	onic, chronic	:)					
1	Dose	Exposure time	Species	Method	Evaluation	Note			
Subacute oral	No informati available	on No information available	No informatio available	No information available	No information available	-			
Subacute dermal	No informati available	on No information available	No informatic available	No information available	No information available	-			
Subacute inhalation	No informati available	on No information available	No informatic available	No information available	No information available	-			
Subchronic oral	No informati available	No information available	No informatic available	No information available	No information available	-			
Subchronic dermal	No informati available	on No information available	No informatic available	No information available	No information available	-			
Subchronic inhalation	No informati available	on No information available	No informatic available	No information available	No information available	-			
Chronic oral	No informati available	on No information available	No informatic available	No information available	No information available	-			
Chronic dermal	No informati available	No information available	No informatic available	No information available	No information available	-			
Chronic inhalation	No informati available	on No information available	No informatic available	No information available	No information available	-			
Specific	target organ to:	kicity – repeated e	exposure (ST	OT RE):					
1		Specific effects	·	Target org	jan	Note			
Subacute oral	No info	rmation available		No information ava					
Subacute dermal	No info	rmation available		No information ava	nilable -				
Subacute inhalat	ion No info	rmation available		No information ava	nilable -				



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Subchr	onic oral	No info	rmation availa		No inform	nation available	_			
	onic dermal		rmation availa			nation available	_			
	onic inhalatio		rmation availa			nation available	-			
Chronic			rmation availa			nation available	_			
	dermal		rmation availa			nation available	_			
			rmation availa			nation available	_			
							!			
	CMR effects	s (carcinogen	icity, mutage	nicity, reprod	uctive toxicit	y)				
	Carcinogen	icity:	Curre	ent studies or	test animals	s did not indicate ca	arcinogenic effects.			
	Mutagenici	ty in-vitro:	Curre	Current in vitro tests did not indicate mutagenic effects.						
	Genotoxicit	y:	No ir	No information available						
	Mutagenici	ty in-vivo:	Curre	Current in vivo tests did not indicate mutagenic effects.						
	Germ cell m	nutagenicity:	No ir	No information available						
	Reproductiv	ve toxicity:		No toxicity on reproductive organs was determined in reproductive organs.						
	Summany	f evaluation (of the CMR pi	operties:						
	Summary O	1 evaluation (or the Civily pi	operties.						
11.2	Information	on other ha	zards:							
11.2.1.	Endocrine o	disrupting pro	perties:							
	component			ve						

11.2	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
11.2.2.	Other information:
	-

SECTION 12 ECOLOGICAL INFORMATION:									
12.1. Toxicity									
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC ₅₀	96 hours	No information available	No information available	-	-			



% Degradation

No information

available

Time (days)

information

No

available

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Crustacea: Algae/aquatic plants		EC ₅₀ 48 hours		No information available		No ormation vailable	_	-			
		IC ₅₀	8 days	No information available		No ormation vailable	-	-			
Microorganism	S	LC ₅₀	72 hours	5 -	-		_	-			
Chronic toxicity	/	Dose	Exposui time	re Species	N	lethod	Evaluatio	on Note			
Fish		LC ₅₀	96 hours	No information available	No infor avail	mation able	No information available	ı -			
Crustacea:		EC ₅₀	48 hours	No information available	No infor avail	mation able	No information available	٦ -			
Algae/aquatic plants		IC ₅₀	72 hours	No information available	No information available		No information available	۱ -			
Other organism	าร	-	-	-	-		-	-			
	c degra	nd degrada adation Iradation ha	-	Method			Evaluation	Note			
Marine water	No inf	ormation av	vailable	No information avai	lable	No inforn	nation availab	ole -			
Fresh water	No inf	formation av	vailable	No information avai	lable	No inforn	nation availab	ole -			
Air	No inf	ormation a	vailable	No information avai	lable	No inform	nation availak	ole -			
Soil	No inf	ormation av	vailable	No information avai	o information available No inforn		nation availak	ole -			

12.3.	. Bioaccumulative potential									
	Partition coefficient: n-octanol/water (log Kow):									
Valu	е	Concentration	рН	°C	Method	Evaluation	Note			

Method

No information

available

Evaluation

No information

available

Note

No information

available



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-		No availa	informa ble	ation -		_	lo info vailab	ormation le		inform	ation	-	
	Bioco	ncent	tration fa	actor (BC	F)								
V	Value Species			M	1ethoc	ł	E	valuatio	on		Note		
	No information No		No availab		mation	No info		on	No inf availal	ormation ole	on	No inforr available	nation
	Chro	nic ec	otoxicity	/									
	Valu	ıe		Dose		oosure :ime	Spe	ecies	Met	hod	Eva	luation	Note
Chronic toxicity on fish		LC ₅₀	1	No information available		o No Iformation information available			No info	ormation le	-		
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀		No information available		mation able	No inform availab	mation availal		ormation le	_		
12.4.		ility in		al al:asu:la.	.4:								
			ation ava		iuon in e	environme	entarc	.omparu	nents.				
		ce ter		andorc									
		alue		°C	С	oncentrat	tion		Metho	od		N	ote
	No inforr availa	matioi able		ormation ilable		informat ailable	ion						
	Adso	rptior	n / desor	ption									
Transpo	ort		/D coeff enry's co		lo	og Kow	Εν	/aporatio	on rate		Method		Note
Soil-wat	tor	No availa		formation	No ii availa	nformatio able		o inform ailable	ation	No ir availa	nformation able	on -	



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Water-a	er-air No information available		No information available	No information available	n No information available	-					
Soil-air	No availa	information able	No information available	No information available	No information available	-					
12.5.	Results of	PBT and vPvB asses	ssmant								
12.3.	The subst	ance/mixture does	not contain compo		ed to have endocrine ulation (EU) 2017/21	e disrupting properties					
	_	n (EU) 2018/605 at I			Jidiioii (20) 2017/21	00 01 C0111111331011					
12.6.	Endocrine	disrupting propert	ies								
	according		7(f) or Commissio	n Delegated regi	ed to have endocrine ulation (EU) 2017/21	disrupting properties 00 or Commission					
12.7.	Other adv	erse effects									
12.7.		nation available									
	NO IIIIOIII	ation available									
SECTIO	N 13 DISP	OSAL CONSIDERA	TIONS								
13.1.		reatment methods	110113								
	110010										
13.1.1.	Product	/Packaging disposa	l;								
	Submit Protection	•	egal person autho	rized by the Min	istry of Environment	al and Nature					
12.1.2	\\\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-			. 1							
13.1.2.		odes/waste designa rmation available	itions according to) Law:							
	INO IIIIOI	mation available									
13.1.3.	Waste ti	reatment – relevant	information:								
	No info	mation available									
13.1.4.	Sewage	disposal – relevant	information:								
	Waste n	nust not be dispose	d of into the sewa	ge system.							



Transport hazard class(es):

Environmentally hazardous:

Packing group:

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	authoriz the pack	ed by the ministry in o	t's remains into the sewage syst charge. Do not dispose of the parts authorized by the ministry in	ackaging into the se	ewage system	. Submit					
13.1.6.	Relevan	t Community provision	ns:								
	-										
SECTIO	N 14 TRAN	ISPORT INFORMATION	ON								
	Transporti	ng/shipment by road	(ADR)								
UN number:			Not subject to transport regulations.								
UN proper shipping name:		g name:	-								
Transpo	rt hazard c	lass(es):	-								
Packing	group:		-								
Environr	mentally ha	zardous:	-								
Special p	orecautions	s for user:	-								
	Transporti	ng/shipment by rail (F	RID)								
UN num	ber:		Not subject to transport regu	lations.							
UN prop	er shippin	g name:	-								
Transpo	rt hazard c	lass(es):	-								
Packing	group:		-								
Environr	mentally ha	zardous:	-								
Special p	orecautions	for user:	-								
	Inland wat	terway transport (ADN	l)								
UN num	ber:		Not subject to transport regulations.								
UN prop	er shippin	g name:	-								

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:	-

-



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Trading name:					
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Transporting/shipment by air (ICAO-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 environmental regulations/legislation specific for the substance or mixture		
	EU regulations		
	Authorization and/or rest	trictions of use	
	Authorizations:	-	
	Restrictions:	-	
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation 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	
	Information according 19 guideline)	dangerous substances, mixtures and articles (Annex XVII); 399/13/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	



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Trading name:	PERIODIC ACID, LEUKOGNOST			
Product code:	PKL-OT-X**	Date of compilation:	21 Dec 2022	Version: 1

15.2.	Chemical safety assessment
	None

SECTIO	TION 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 u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)			
Classifi	ication	Classification procedure			
-		-			
16.5.	Relevant H statements (number	er and full text)			
	H: -	-			
16.6.	Training advice:	-			
16.7.	Further information:	** "X" in the product code marks different volumes (different packaging the product) We are not responsible for consequences in case of failure to comply winstructions 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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BIOGNOST® According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading name:	SODIUM METABISULFITE, LEUKOGNOST				
Product code:	NMLKG-OT-X**	Revision date:	21 Dec 2022	Version:	2

1.1.		ON 1: Identification of the substance/mixture and of the company/undertaking Product identifier			
1.1.	Trading name:	SODIUM M	1FTABISUI FI	TE, LEUKOGNOST	
	Chemical name:	-			
	Catalogue number:	NMLKG-OT-X**			
1.2.			xture and uses advised against		
	Uses:		For use w	ith special staining kits.	
	Uses advised against:			dentified 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 of the safety data sheet				
	Supplier:	Bi	oGnost Ltd.		
	Address:	М	Medjugorska 59, Zagreb		
	Telephone number:	+;	+385 1 2409997		
	•		+385 1 2404039		
	Fax no.:	+.	303 I L -10-10	39	
	e-mail of competent		sds@biogno		
1.4.	e-mail of competent	person: m			
1.4.	e-mail of competent National contact:	person: m	sds@biogno		
1.4.	e-mail of competent National contact: Emergency telephone	person: m	sds@biogno	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 cate	Hazard class and category code: Hazard statements*:		
	Eye Dam. 1		H318 EUH031	
2.1.2.	Additional information			
	-			
*For ful	l text of Hazard- and EU Hazard-sta	atements: see Section	16	
2.2.	Label elements			
	Product identification:	SODIUM METABISUI	FITE, LEUKOGNOST	
	Identification number:	Identification number: -		
	Authorization no.:	-		



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Trading name:	SODIUM METABISULFITE, LEUKOGNOST				
Product code:	NMLKG-OT-X**	Revision date:	21 Dec 2022	Version:	2

	Hazard pictograms:	GHS05
	Signal word:	Warning
	Hazard statements:	H318 Causes serious eye damage. EUH031 Contact with acids liberates toxic gas.
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Immediately call a POISON CENTER or physician.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Results of PBT and vPvB asserber or a vPvB.	

SECTION 3. Co	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
7681-57-4/ 231-673-0/ 016-063-00-2	-	22 - 25 %	sodium metabisulfite	Acute Tox. 4, H302 Eye Dam. 1; H318 EUH031	

SECTI	SECTION 4. First aid measures			
4.1.	Description of first aid measures			
	General notes:	Take off contaminated clothing.		
	Following inhalation:	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.		
	Following skin contact:	Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.		



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Trading name:	S	ODIUM METABIS	ULFITE, LEUKOGNOST	-	
Product code:	NMLKG-OT-X**	Revision date:	21 Dec 2022	Version:	2

	Following eye contact:		In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.			
	Following ingestion: Self-protection of the first aider:		Rinse mouth. Call a doctor if you feel unwell.			
			Treat symptomatically.			
4.2.	Most important symptoms and ef		ffects, both acute and delayed			
	Following inhalation:	No information available				
	Following skin contact:	No i	o information available			
	Following eye contact:	Risk	k of blindness, Risk of serious damage to eyes.			
	Following ingestion:	No i	nformation available			
4.3.	3. Indication of any immediate medical attention and special treatment needed -		cal attention and special treatment needed			

SECTIO	ECTION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:	Small fire - water spray, dry powder, foam, 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					
	Do not enter fire area without pro	oper protective equipment, including respiratory protection.				
5.4.	Additional information					
	Remove sources of heat and ignit Do not contaminate the environm					

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 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:					
	Do not enter fire area without pro	oper protective equipment, including respiratory protection.				



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Trading name:	SC	DDIUM METABIS	ULFITE, LEUKOGNOST		
Product code:	NMLKG-OT-X**	Revision date:	21 Dec 2022	Version:	2

6.2.	Environmental precautions:	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	ntainment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Covering of drains. Take up mechanically.					
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. 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:	Place in appropriate containers for disposal.					
6.4.	Reference to other sections						
	See Section 7 for information See Section 8 for information See Section 13 for information	about personal protective equipment.					

SECTIO	DN 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:		Prevent spilling into the sewage system and waterways.				
	Other measures:		-				
7.1.2.	Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. T	horoughl	y wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities						
	Technical measures and storage conditions:	Keep in ventilate	tightly closed and upright set containers in a welled place.				
	Packaging materials:	Manufacturer's original packaging.					
	Requirements for storage rooms and vessels:	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 me be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.					



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Trading name: SODIUM METABISULFITE, LEUKOGNOST										
Product code:	NMLKG	G-OT-X**	R	Revisio	n date:	2	1 Dec 2022		Version:	2
Further in	nformation	on storage	conditio	ns:	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).				:her	
7.3. Specific e	end use(s)									
Recomm	endations:				-					
Industrial	al sector specific solutions:				-					
SECTION 8. Expos	sure contr	ols/person	al protec	tion						
8.1. Control p	arameters	l I		I						
C 1 .		CACA	. .		•		posure limit rm values			
Substance	9	CAS I	No		opm		mg/m³] Bi	Biological limit values	
-				1	- -			No inf	o information available	
Substance -										
EC No: -		CAS No:	-							
DNEL		1								
				Inc	dustrial					
Route of exposure:		Acute ect local	effe	Acute			Chronic effect local		Chro effect sy	
Oral	-		-			-			-	
Inhalation	-		_			-			-	
Dermal	-		-			-			-	
Critical physical pa	rameters:	solubility, fla	ammabili	ty, cor	rosivity:		-			
				Co	nsumer					
Route of	,	Acute		Acute	:		Chronic		Chro	nic
exposure:	effe	ect local	effe	ct syst	emic		effect local		effect sy	rstemic
Oral		-			-			-		
Inhalation				-			-			
Dermal					-			-		
PNEC										
Environmental pro	tection tar	get			PNEC					
Fresh water					No information available					
Freshwater sedime	ents				No information available					
Marine water			No information available							



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Trading name:		SODIUM METABIS	SULFITE, LEUKOGN	OST	
Product code:	NMLKG-OT-X**	Revision date:	21 Dec 2022	Version:	2

Marine se	ediments			No information available		
Food chai	in			No information available		
Microorga	anisms in sewage treatment			No information available		
Soil (agric	cultural)			No information available		
Air				No information available		
8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent expoduring identified uses:			product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.		
	Structural measures to pre exposure:	event	No infor	mation available		
	Organisational measures to prevent exposure:		_	ation of work in order to reduce other worker's influence ork process.		
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentral levels in air below permitted levels.			
8.2.2.	Personal protection equip	uipment				
8.2.2.1.	Eye and face protection:		Safety gl visor.	asses that stick to face (preventing splashing) (EN 166) or		
8.2.2.2.	Skin protection					
	Hand protection:	Chem 374.	Glove n	naterial: nitrile rubber hickness: > 0.11 mm nrough time: >480 min		
	Other skin protection:			clothing made of natural fibers (such as cotton) with long 34), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	In cas	e of inade	quate ventilation wear respiratory protection.		
8.2.2.4.	Thermal hazards:	No in	formation	available		
8.2.3.	Environmental exposure of	controls				
	Substance/mixture related measures to prevent expo		See Secti	ion 6		
	Structural measures to pre exposure:	event	Use mod	lern equipment.		
	Organisational measures prevent exposure:	to		e work process to the required working conditions of the ce. Keep away from drains, surface and ground water.		
	Technical measures to pre exposure:	event	See Secti	ion 6		



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Information on basic physical and che	mical properties		
	Value	Method	
Physical state:	liquid	No information available	
Color:	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	
Lower and upper explosion limit:	No information available	No information available	
Flash point:	No information available	No information available	
Auto-ignition temperature:	No information available	No information available	
Decomposition temperature:	No information available	No information available	
pH:	No information available	No information available	
Kinematic viscosity:	No information available	No information available	
Solubility:	No information available	No information available	
Partition coefficient n-octanol/water (log value):	No information available	No information available	
Vapour pressure:	No information available	No information available	
Density and/or relative density	No information available	No information available	
Relative vapour density:	No information available	No information available	
Particle characteristics:	No information available	No information available	

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



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11.1. Informati	on on hazard classes as c	lefined in Regulation	on (EC) No 12	72/2008	
Acute to	cicity:				
Route of exposure:	Method	ood Species		Exposi time	RESILITS
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀		-
Specific +	arget organ toxicity – sinc	alo ovnosuro (STO)	r CE).		
Specific t		c effects		et organ	Note
Oral exposure:	No information av	ailable	No information available		-
Dermal exposure:	No information av	ailable	No inform available	nation	-
Inhalation exposur	re: No information av	ailable	No inform available	nation	-
Respirato	ory irritation:	No information	available		
Irritation	and corrosion				
	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	-	-	-	
Eye irritation:	_	-	-	-	Causes serious eye damage
Sensitiza	tion				
Dermal exposure:	No information availab	le			
Inhalation	No information availab				



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Oral exposure: N		No informati	o information available									
Dermal exposure	e:	No informati	No information available									
Inhalation expos	ure:	No informati	on available									
Eye exposure:		Causes serio	ious eye damage									
Repeat	ed dos	se toxicity (sub	oacute, subchr	onic, chronic)								
		Dose	Exposure time	Species	Method	Evaluation	า	Note				
Subacute oral	No availa	information able	No information available	No information available	No information available	No inform available	nation	–				
Subacute dermal	No information available		No information available	No information available	No information available	No inform	nation	-				
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 availa	information able	No information available	No information available	No information available	No information available		-				
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available		-				
Chronic oral	No availa	information able	No information available	No information available	No information available	No inform available	nation	-				
Chronic dermal	No availa	information able	No information available	No information available	No information available	No inform	nation	-				
Chronic inhalation	No information available		No information available	No information available	No information available	No inform available	nation	-				
Specific	targe	t organ toxici	ty – repeated e	exposure (STO	T RE):		i					
Specific effects				:S	Target organ Note			Note				
Subacute oral		No informa	tion available		No information available -							
Subacute derma		No informa	tion available		No information	available	-					



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		· •			Ţ			
Subacute	inhalation	No information ava	ailable	No information available	-			
Subchror	nic oral	No information ava	ailable	No information available	-			
Subchror	nic dermal	No information ava	ailable	No information available	-			
Subchror	nic inhalation	No information ava	ailable	No information available	-			
Chronic o	oral	No information ava	ailable	No information available	-			
Chronic o	dermal	No information ava	ailable	No information available	-			
Chronic i	Chronic inhalation No informati		ailable	No information available	-			
	CMR effects (d	carcinogenicity, muta	genicity, reproductiv	re toxicity)				
	Carcinogenicit	ty:	No information available					
	Mutagenicity	in-vitro:	No information av	vailable				
	Genotoxicity:		No information available					
	Mutagenicity	in-vivo:	No information available					
	Germ cell mut	agenicity:	No information available					
	Reproductive	toxicity:	No information available					
	Summary of e	valuation of the CMF	R properties:	-				
11.2.	Information o	n other hazards:						
11.2.1.	Endocrine disr	rupting properties:						
	No known properties tha	endocrine disruր t affect human healt						
11.2.2.	Other informa	ition:	: 					
	-							

SECTION 12. Ecological information										
12.1. Toxicity										
Acute (short-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	8 days	No information available	No information available	No information available	-				
Microorganisms	LC ₅₀	72 hours	-	-	-	-				



Bioconcentration factor (BCF)

Species

Value

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Product code:	NMLKG-OT-X**	Revision date:	21 Dec 2022	Version:	2		

Product code:		NMLKG-OT-X**			evision date:	21 Dec 2022		Version:	2	
Chronic toxici	ty	Dose	Exposur time	е	Species	I	Method	Eva	luation	Note
Fish		LC ₅₀	96 hours		information lable	No information available		No information available		-
Crustacea: EC ₅₀			48 hours		information lable	No ir availa	nformation able	No info availabl	rmation e	-
Algae/aquatic plants		IC ₅₀	72 hours		information lable	No ir availa	nformation able	No info availabl	rmation e	-
Other organisms		-	-	micı	roorganisms	No information available		No info availabl	rmation e	-
		and degrac	lability							
Abio	-	gradation	16.11							
	Degradation half-lives			Method		E۱	Evaluation		Note	
Marine water	No information available			No inf	No information available No in		No informa	nformation available		-
Fresh water	No ir	o information available N			formation avai	lable	No informa	tion avail	able	_
Air	No ir	nformation a	available	No inf	formation avai	lable	No informa	tion avail	able	_
Soil	No ir	nformation a	available	No int	No information available No information		tion avail	able	-	
Biod	egrada	ation								
% Degradation	on	Time (da	ys)	N	1ethod		Evaluation		Note	
No informatio available		o info vailable	rmation		No information available		No information available		No information ava	
12.3. Bioa	ccumu	lative poten	tial							
Parti	tion co	efficient: n-	octanol/w	ater (log	Kow):					
Value	Conc	entration	рН	°C	Method	k	Evaluat	ion	No	ote
_	No ir availab	nformation ble	-	-	No informat available	ion	No informa available	tion	-	

Method

Evaluation

Note



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Trading na	ame:			S	ODIUM METABISULFITE, LEUKOGNOST						
Product co	ode:	NMLk	(G-OT-X**		Revis	ion date:	21 Dec	2022		Version:	2
No informa available	tion	No information available		No information available available		nation		No informat available	ion		
Cl	nronic ed	otoxici	ty								
V	'alue		Dose		osure me	Species	Meth	od	Ev	valuation	Note
Chronic tox	Chronic toxicity on fish LC ₅₀		No inforr availa	nation ble	No informat ion available	No inform available	nation	No in availa	formation ble	-	
	Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No inforr availa	nation ble	No informat ion available	No inform available	nation	No information available		-
12.4. M	obility ir	n soil									
		•	ed distribut	ion in e	environm	ental comp	partments:				
N	o inform	ation a	vailable								
Sı	ırface te	nsion:					T				
	Value		°C		Concentration M		Method			Note	
	o formatic vailable	on No	inform ailable	nation No inform available			No information available		-		
A	dsorptio	n / desc	orption								
Transport		/D coef enry's co	ficient onstant	lo	g Kow	Evapoi	ration rate	M	lethod		Note
Soil-water	No availa		formation	No in availa	formatio ble	n No info	ormation le	No inf availat	ormatic ole	on -	
Water-air	No availa		formation	No in availa	formatio ble	n No info availab	ormation le	No inf availat	ormatic ole	on -	
Soil-air			No in availa	formatio ble		No information available		ormatic ole	on _		
12.5. Re	esults of	PBT and	d vPvB asse	ssment							



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Trading	g name:		SODIUM METABIS	SULFITE, LEUKOGN	OST						
Produc	t code:	NMLKG-OT-X**	Revision date:	21 Dec 2022	Version:	2					
	No inform	ation available									
12.6.		disrupting properties									
	No knowr	endocrine disrupting p	roperties that affect th	ne environment.	_						
12.7.		erse effects									
	No advers	e effects are expected.									
CECTIO	N 42 D'										
		osal considerations									
13.1.	vvaste tr	eatment methods									
13.1.1.	Droduct	Dackaging disposal:									
15.1.1.		Packaging disposal:	porcon authorized by	the Ministry of Environ	montal and Natu	ıro					
	Protection	or disposal to the legal p on.	Derson authorized by	the Millistry of Environ	imental and Natu	ire					
13.1.2.	Waste co	odes/waste designations	according to Law:								
	No infor	mation available									
	,										
13.1.3.	Waste tr	eatment – relevant infor	mation:								
	No infor	mation available									
13.1.4.	Sewage	disposal – relevant infor	mation:								
	Waste m	ust not be disposed of i	nto the sewage syster	n.							
13.1.5.	Other di	sposal recommendations	s:								
		lispose of the product's									
		ed by the ministry in cha		. 55							
	•	packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where tion may occur.									
13.1.6.	Relevant	Community provisions:									
	-										
	·										
SECTIO	N 14. Trans	sport information									
	Transporti	ng/shipment by road (A	DR)								
UN num	nber:		Not subject to transpo	ort regulations.							
UN prop	oer shipping	ງ name:	-								



Trading name:

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Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally ha		-				
Special precautions		-				
•	ng/shipment by rail (RI					
UN number:		No	t subject to transpo	ort regulations.		
UN proper shipping		-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally ha		-				
Special precautions	i i	-				
i	terway transport (ADN)					
UN number:		No	t subject to transpo	rt regulations.		
UN proper shipping		-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Transporti	ng/shipment by sea (IN	1DC	5)			
UN number:		No	t subject to transpo	rt regulations.		
UN proper shipping	g name:	-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally ha	zardous:	-				
Special precautions	for user:	-				
Transporti	ing/shipment by air (ICA	۰0	TI/IATA-DGR)			
UN number:		No	t subject to transpo	rt regulations.		
UN proper shipping	g name:	-				
Transport hazard cl	ass(es):	-				
Packing group:		-				
Environmentally ha	zardous:	-				
Special precautions	for user:	-	_	_	_	
Further information	: The product is r	not	subject to classifica	tion.		
	•	_				



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SECTIO	ON 15. Regulatory informa	ition						
15.1.	Safety, health and environ	nmental regulations/legislation specific for the substance or mixture						
	EU regulations	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);						
	Information according 19 guideline)	999/13/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	N 16. Other information	
16.1.	Indication of changes:	-



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16.2.	Abbreviations and acronyms:		5:	ADR: Accord relatif au transport international des marchandises dangereuse 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:		k	-		
16.4.		ssification and procedure 72/2008 (CLP)	used to	o derive the classification for mixture according to Regulation (EC)		
Classific	ation	1	Classif	ication procedure		
-			-			
16.5.	Rel	evant H statements (num	ber and	I full text)		
		302	Harmf	ul if swallowed.		
	H:	318	Cause	s serious eye damage.		
		EUH031	Conta	ct with acids liberates toxic gas.		
16.6.	Tra	ining advice:	-			
16.7.	Further information: We ar instruc			in the product code marks different volumes (different packagings of oduct) e not responsible for consequences in case of failure to comply with ctions for use or improper use of the product described in this fall safety data sheet.		

ANNEX: Exposure scenario resulting to Chemical safety assessment



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SECTI	ION 1: Identification of	the substance	e/mixture	e and of the company/undertaking		
1.1	Product identifier	· · · · · · · · · · · · · · · · · · ·				
	Trading name:	HCL REAGE	NS, LEUK	OGNOST PAS		
	Chemical name:	-				
	Catalogue number:	HCLLP-OT-	X**			
1.2	Relevant identified uses of the substance or mixture and uses advised against			nixture and uses advised against		
	Uses:		For use	with special staining kits.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnost: device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purpose			
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	+385 1 2409997 +385 1 2404039		
	Telefax.:		+385 1			
	e-mail of competent p	person:	msds@l	<u>piognost.hr</u>		
	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	CTION 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*:				
	Skin Corr. 1A		H314		
	STOT SE 3		H335		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	SECTION 16		
2.2	Label elements				
	Product identification: HCL REAGENT, LEUKOGNOST PAS				
	Identification number: -				
	Authorization number:	-			



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	Hazard pictograms:	GHS05 GHS07
	Signal word:	Danger
	Hazard statements:	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Propertion No known endocrine disrupting	

SECTION 3. Co	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
7647-01-0/ 231-595-7/ 017-002-00-2	01-2119484862-27- xxxx	22 - 25 %	hydrochloric acid, 37%	Skin Corr. 1A; H314 STOT SE 3; H335				

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



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	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.	
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.	
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.	
	Self-protection of the first aider:	-	
4.2	Most important symptoms and effects, both acute and delayed		
	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 ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.	
		cal attention and special treatment needed	

SECTI	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 with full jet		
5.2	Special hazards arising from the substance or mixture			
	Hazardous combustion products:	Formation of toxic gases is possible during heating or in case of fire.		
5.3	Advice for firefighters			
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information			
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.			

SECTION 6. Accidental release measures		
6.1	Personal precautions, protective equipment and emergency procedures	



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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 c (see Section 8).	ase of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for 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:	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 information.				

SECTIO	SECTION 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:				



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	Do not eat, drink or smoke in the workspace. The	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.				
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).				
7.3	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				

SECTION 8. Exposure controls/personal protection								
8.1 Control pa	arameters							
Substance		CAS No		-		xposure limit erm values		Biological limit values
				рр	m	mg/m³		
Hydrogen chloride		764	7-01-0	5/	10	8/15	-	
Substance name:	-							
EC No:	-	CAS No	: -					
DNEL								
				Indu	strial			
Route of	Acu	ıte	Acut	te		Chronic		Chronic
exposure:	effect	local	effect sys	stemic		effect local		effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal	-		-		-			-
Critical physical parameters: solubility, flammability, corrosivity: -								
	Consumer							



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Product	coue. I	HCLLP-OT-X		Date Of	compliation.	Z i Decei	TIDEL 2022	version, z
Route of exposure		Acute effect local		ute ystemic	Chroi effect l		Chronic effect systemic	
Oral		-	-	-	-		-	·
Inhalation	า	-	-		-		-	
Dermal		-	-		-		-	
PNEC					•			
Environm	ental protec	ction target		P	PNEC			
Fresh wat	ter			n	no information av	vailable		
Freshwate	er sediments	s		n	no information av	vailable		
Marine w	ater			n	no information av	vailable		
Marine se	ediments			n	no information av	vailable		
Food cha	in			n	no information av	vailable		
Microorg	anisms in se	ewage treatment		n	no information av	vailable		
Soil (agric	Soil (agricultural)				no information available			
Air				n	no information av	vailable		
8.2	-	e controls						
8.2.1.	Appropr	iate engineering o	controls					
		Substance/mixture related measures to 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.			
	Structura exposure	al measures to pre e:	event	In accordance with Section 7.				
	Organisa exposure	ational measures t e:	to prevent		Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure:		sure: c	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 equip	ment					
8.2.2.1.	Eye and	face protection:	I	levels of	asses that stick to concentration in	air; protecti	ve gas mask	that covers the
	-		(entire fac	ce in case of high	er levels of	concentratio	n in air.



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	Technical measures to prevent exposure:	See Section 6			
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.			
	Structural measures to prevent exposure:	Use modern equipment.			
	Substance/mixture related measures to prevent exposure:	See Section 6			
8.2.3.	Environmental exposure controls				
8.2.2.4.	Thermal hazards:	No information available			
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.			
	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.			
	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min			

SECTI	SECTION 9. Physical and chemical properties					
9.1	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Color:	colourless	No information available			
	Odour/odour threshold:	hydrochloric acid/no information available	No information available			
	Melting point / freezing point:	No information available	No information available			
	Boiling point or initial boiling point and boiling range:	No information available	No information available			
	Flammability:	No information available	No information available			
	Lower and upper explosion limit:	No information available	No information available			
	Flash point:	No information available	No information available			
	Auto-ignition temperature:	No information available	No information available			
	Decomposition temperature:	No information available	No information available			



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	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2	Other information		
	-		

SECTIO	SECTION 10. Stability and reactivity						
10.1	Reactivity:	See subsections 10.3 through 10.5.					
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).					
10.3	Possibility of hazardous reactions:	No dangerous reactions known.					
10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.					
10.5	Incompatible materials:	No further relevant information available.					
10.6	Hazardous decomposition products:	No dangerous decompostion products known.					

SECTION 11. T	oxicological information				
11.1 Inform	ation on toxicological effe	ects			
Acute	toxicity:				
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results
Oral:	No information available	-	No information available	-	-
Dermal:	No information available	_	No information available	-	_
Inhalation:	No information available	-	No information available	-	_
·					
Specifi	c target organ toxicity – s	ingle exposure	(STOT SE):		
	Specific e	ffects	Target orga	n	Note
Oral:	No information avai	lable	No information avail	able -	
Dermal:	No information avai	lable	No information available -		



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Product code:	Н	CLLP-OT-X**	Da	ate of compila	tion: 21 D	ecember 2	022 Version: 2
Inhalation:	N	o information	available	No inf	ormation availa	able -	-
Aspiratio	on haz	zard:	N	lo information a	available.		
<u> </u>			<u> </u>				
Irritation	n and o	corrosion					
		Exposur	e time	Species	Evaluation	Method	Note
Skin corrosion/irritation	on:	-	-		-	-	-
Serious eye damage/irritation	า	-	-		-	-	-
Sensitiza	ation						
Skin sensitization		No inf	ormation avai	lable			
Respiratory sensi			ormation avai				
The second secon		1 112 111					
Sympto	ms rela	ated to the pl	nysical, chemic	al and toxicolo	gical characteri	stics	
Oral exposure:		No informati	on available.				
Dermal exposure	:	No informati	on available.				
Inhalation expos	ure:	No informati	on available.				
Eye exposure:		No informati	on available.				
Repeate	d dos	e toxicity (sub	acute, subchro	onic, chronic)			1
		Dose	Exposure time	Species	Method	Evaluati	on Note
Subacute oral	No avail	information able	No information available	No information available	No information available	No informa available	
Subacute dermal	No avail	information able	No information available	No information available	No information available	No informa available	
Subacute inhalation	No avail	information able	No information available	No information available	No information available	No informa available	
Subchronic oral	No avail	information able	No information available	No information available	No information available	No informa available	
Subchronic dermal	No avail	information able	No information	No information	No information	No informa	



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Subchronic inhalation	No i availal	nformation ble	No information available	No information available	No information available	No information available	on	-
Chronic oral	No i availal	nformation ble	No information available	No information available	No information available	No information available	on	-
Chronic dermal	No i	nformation ble	No information available	No information available	No information available	No information available	on	-
Chronic inhalation	No i availal	nformation ble	No information available	No information available	No information available	No information available	on	-
Coocific	target	araan tayisit	v ropostod o	OVER O SUMO (STOT	DE).			_
Specific	target	organ toxicit	Specific effec	exposure (STOT	Target o	raan		Note
Subacute oral		No informa	tion available	.13	No information		_	Note
Subacute dermal		No informa			No information available		_	
Subacute inhalat			tion available				-	
Subchronic oral			tion available	e No information available			-	
Subchronic derm	nal	No informa	tion available	No information available -		-		
Subchronic inhal	ation	No informa	tion available		No information	n available	-	
Chronic oral		No informa	tion available		No information	n available	-	
Chronic dermal		No informa	tion available		No information	n available	-	
Chronic inhalatio	n	No informa	tion available		No information	n available	-	
CMR off	ects (ca	rcinogenicity	/: mutagenicit	y; reproductive	toxicity)			
Carcino			y, matagemen	·	<u> </u>	ssification c	riteria	are not met
Mutage	-			Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.				
Genoto	······			Based on available data, the classification criteria are not met.				
Mutage		vivo:		Based on available data, the classification criteria are not met.				
	Germ cell mutagenicity:			Based on available data, the classification criteria are not met.				
Reprodu	uctive to	oxicity:		Based on avail	able data, the cla	ssification c	riteria	are not met.
Summa	•	evaluation	of the CN	MR Based on met.	available data, t	the classifica	ation	criteria are no

11.2 Information on other hazards:

11.2.1. Endocrine disrupting properties:



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	No known endocrine disrupting properties that affect human health.
11.2.2.	Other information:
	-

12.1 Toxicity						
Acute (short-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	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 Persist	tence 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	-							



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				:		:				
Air	No infor	mation a	available	No inf availal	formation ble	No infor			-	
Soil	No infor	mation a	available	No inf availal	formation ble	No infor available			-	
	radation									
% Degradation	n	Time (days)	<u> </u>	Method	Eva	luation			Note
No information available	No ava	in ilable	formatio	n No int availa	formation ble	No infor available			No info	ormation le
12.3. Bioaccu	umulative	potentia	ıl							
Octano	l-water pa	artition c	oefficien	t (log Kow	v)					
Value	Concentra	ation	рН	°C	Method		Evalua	tion		Note
			-	-	_	-			-	
Piocon	centration	factor (DCE)							
Value	Centration	Specie			Method	F۱	/aluatio	n		Note
No information	No	<u> </u>	formatio		ormation		ormatio			11010
available	availa				available		available		-	
Chroni	c ecotoxici	ity								
Value		Dos	se E	xposure time	Species	Meth	nod	Evalu	ation	Note
Chronic toxicity on fish		LC ₅₀	1	ormation ailable	No information available	No informa availab		No informa availab		-
Chronic toxicity			······)	No	No		No		



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	No	informatio	n available					
	Surf	ace tensio	on:					
	,	Value	°C	Concentration	n Meth	nod		Note
		rmation lable	No information available	No information available	No informati available	on	-	
	Ads	orption / o	desorption					
Transpo	ort	-	coefficient /'s constant	log Kow	Evaporation rate	e Meth	od	Note
Soil-wa	ter	No available	information	No information available	No information available	No inform available	nation	-
Water-a	air	No available	information	No information available	No information available	No inform available	nation	-
Soil-air		No available	information	No information available	No information available	No inform available	nation	-
12.5.	Dan	ulta af DDT	and vPvB asses					
12.5.		applicable		sment				
	1400	аррпсави	<u>. </u>					
12.6.	End	ocrine disi	rupting properti	es				
	No	known end	docrine disruptii	ng properties that	affect the enviror	ment.		
12.7.		er adverse						
	No	further rel	evant information	on available.				
SECTIO	N 13	. Disposal	l consideration:	s				
13.1	W	aste treati	ment methods					
13.1.1.			kaging disposal					
		ubmit for o	disposal to the le	egal person autho	rized by the Minis	try of Environ	mental	and Nature
13.1.2.			s/waste designa					



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	15 01 10*: Packaging that substances	contains residual hazardous substances or is contaminated with hazardous
13.1.3.	Waste treatment – relevar	nt information:
	No information available	
13.1.4.	Sewage disposal – relevar	nt information:
	Waste must not be dispos	red of into the sewage system.
13.1.5.	Other disposal recommen	dations:
	authorized by the ministry	duct'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 ectors authorized by the ministry in charge.
13.1.6.	Relevant Community prov	risions:
	Disposal must be made ac	ccording to official regulations.
UN num	Transporting/shipment by r	oad (ADR) 1789
	N 14. Transport informatio Transporting/shipment by r	
	per shipping name:	Hydrochloric acid, solution
······	ort hazard class(es):	8
Packing		
	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by r	ail (RID)
UN num	nber:	1789
UN pro	per shipping name:	Hydrochloric acid, solution
Transpo	ort hazard class(es):	8
Packing	group:	11
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Inland waterway transport (ADN)
UN num	nber:	1789
UN pro	per shipping name:	Hydrochloric acid, solution
Transpo	ort hazard class(es):	8
_	group:	



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Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1789
UN proper shipping name:	Hydrochloric acid, solution
Transport hazard class(es):	8
Packing group:	II
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 (ICA	AO-TI/IATA-DGR)
UN number:	1789
UN proper shipping name:	Hydrochloric acid, solution
Transport hazard class(es):	8
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTIO	CTION 15. Regulatory information						
15.1	Safety, health and env	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or i	restrictions of use					
	Authorizations:	-					
	Restrictions:	-					



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	None	
15.2	Chemical safety assessme	nt
	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
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	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);

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%			
		TCOJ	Specific target organ toxicity - single exposure			
16.3.	Key literature references and source of data:	-				
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive th	e classification for mixture according to Regulation (EC)			
Classifi	cation	Classification pro	ocedure			
_		_				
16.5.	Relevant H statements (number and full text)					



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	H: 314 335	Causes severe skin burns and eye damage. May cause respiratory irritation.
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 assessm	ent

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SECTI	ON 1: Identification of	the substance	e/mixture	e and of the company/undertaking	
1.1	Product identifier				
	Trading name:	BIOSCHIFF FORTE REAGENT			
	Chemical name:	-			
	Catalogue number:	BSF-OT-X**	7		
1.2	Relevant identified us	ses of the sub	stance or	mixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:	Address:		Medjugorska 59, Zagreb	
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent	person:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	e number			
	National Protection a Directorate:	nd Rescue		112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 2. Hazards identification			
2.1	Classification of the substan	ce or mixture		
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)			P)
	Hazard class and cat	egory code:		Hazard statements*:
	Carc. 1B		H350	
	-		EUH031	
2.1.2.	Additional information			
	-			
*For fu	ll text of Hazard- and EU Hazar	d-statements: se	e SECTION 16	
2.2	Label elements			
	Product identification:	BIOSCHIFF F	ORTE REAGENT	
	Identification number:	-		



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	Authorization number:	-		
	Hazard pictograms:	GHS08		
	Signal word:	Danger		
	Hazard statements:	H350 May cause cancer. EUH031 Contact with acids liberates toxic gas.		
	Precautionary statements:	 P201 Obtain special instructions before use. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P405 Store locked up. P501 Dispose of contents/container in accordance with local regulations. 		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards	Other hazards		
	Endocrine Disrupting Prope	erties:		
	No known endocrine disrupt	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. Co	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
569-61-9/ 209-321-2/ 611-031-00-X	-	10 -13 %	4,4'-(4-iminocyclohexa- 2,5-dienylidenemethylene) dianiline hydrochloride	Carc. 1B; H350	
7681-57-4/ 231-673-0/ 016-063-00-2	-	1 – 3 %	sodium metabisulfite	Acute Tox. 4; H302 Eye Dam. 1; H318 EUH031	
7647-01-0/ 231-595-7/ 017-002-01-X	-	0.7 – 1 %	hydrochloric acid, 36.5%	Skin Corr. 1B; H314 Acute Tox. 3; H331	

CECTI	~~!		
SECIL	ON 4	First aid	measures

4.1 Description of first aid measures



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	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 oral cavity, drink 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 et	ffects, 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 ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.

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		
	Unsuitable extinguishing media:	Water jet		
5.2	Special hazards arising from the s	ubstance or mixture		
	Hazardous combustion products:	Sulfur oxides.		
5.3	Advice for firefighters			
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information			



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Do not contaminate the environment with extinguishing media.

SECTIO	ON 6. Accidental release measu	ıres		
6.1	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personne			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Use protective equipment; in ((see Section 8).	case of inadequate ventilation use adequate airways protective equipment		
6.2	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for con	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 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:	Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information	on safe handling.		
		on personal protective equipment.		
	See Section 13 for disposal inf	See Section 13 for disposal information.		

SECTIO	SECTION 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms.				
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				



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	Other measures:	-		
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. T	horoughly wash hands after work and before eating.		
7.2	Conditions for safe storage, including any income	mpatibilities		
	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.		
	Packaging materials:	Manufacturer's original packaging. Avoid metal containers.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).		
7.3	Specific end use(s)			
	Recommendations:	-		
	Industrial sector specific solutions:	-		

SECTION 8. Exposure controls/personal protection									
8.1	Control pa	arameters	rameters						
Substance		CAS No		·	Occupational exposure limit values/short term values		Biological limit values		
					ppm	mg/m³			
sodium	metabisulfi	te	7681-57	'-4	-/-	5/-	No i	nformation available	
Substar	nce name:	-							
EC No:		_	CAS No	: -					
DNEL									
					Industrial				
Route	of	Acu	ıte	A	cute	Chronic		Chronic	
exposu	ıre:	effect	local	effect systemic		effect lo	cal	effect systemic	
Oral		-		-		-		-	
Inhalation -			-		-		-		



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Product c	ode:	BSF-OT-X**		Date	of compil	ation:	06 Dec 2023		Version:	4
			1							
Dermal		-	-			-		-		
Critical phy	ysical pai	rameters: solubility	, flamma	-	-					
		<u> </u>			onsumer					
Route of exposure:		Acute effect local	•"	Acute	nnia .		Chronic effect local		Chronic	: a
Oral		effect local	- 611	ect syste	ennc	_	enect local	_	effect systemi	IC .
Inhalation		_	-			<u>-</u> -				
Dermal		_	_							
PNEC										
	ental prot	tection target			PNEC					
Fresh wate	•				No infor	mation a	available			
Freshwater		nts			No infor					
Marine wa					No infor					
Marine sec	diments				No infor					
Food chair	า				No information available					
Microorga	nisms in	sewage treatment			No information available					
Soil (agricu		<u> </u>			No infor	mation a	available			
Air					No information available					
					1					
8.2	Exposi	ure controls								
8.2.1.	Appro	priate engineering	controls							
		ance/mixture relate nt exposure during			nrotective equipment 1)0 not eat drink or smoke in the					
	Structı exposı	ural measures to poure:	revent		In accordance with Section 7.					
	Organ exposi	isational measures ure:	to preve	ent	Organization of work in order to reduce other worker's influence during work process.					S
	Techni	nical measures to prevent exposure:			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.					ure
8.2.2.	Persor	nal protection equi	pment							
8.2.2.1.	Eye an	d face protection:	rotection: Safety glasses that stick to face (EN 166) or visor in case of lower rotection: 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 p	rotection								
	Hand	protection:		Protect	tive nitrile	gloves,	0.11 mm thick (EN	l 374)		



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	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 340) and shoes that cover the entire foot.		
8.2.2.3.	Respiratory protection:	Suitable mask (EN 136) or half mask (EN 140) equipped with a combined "A1 + Form" filter (EN 143) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No information available		
8.2.3.	Environmental exposure controls			
	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 prevent exposure:	See Section 6		

9.1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour/odour threshold:	sharp/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	1.2 – 1.6	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



Dermal:

Inhalation:

No information available

No information available

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	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:	No information available			
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:	Strong oxidants (acids).			
10.6	Hazardous decomposition products:	Sulfur dioxide, sodium oxide.			

SECTION 11. T	oxicological info	rmation				
11.1 Inform	nation on toxicolo	gical effects				
Acute	toxicity:					
Route of exposure:	Method	Species	D	ose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure ti	me Results
Oral:	OECD Test Guideline 401	rat (sodium metabisulphite) mouse (C.I. Basic Red 9)	LD ₅₀		-	1.540 mg/kg (sodium metabisulphite) 5.000 mg/kg (C.I. Basic Red 9)
Dermal:	OECD Test Guideline 402	rat	No in	nformation able	-	>2.000 mg/kg (sodium metabisulphite)
Inhalation:	OECD Test Guideline 403	rat	No ir avail	nformation able	4h	>5.5 mg/l (sodium metabisulphite)
Specit	fic target organ to	xicity – single expo	sure (S	TOT SE):		
	Sp	pecific effects		Target organ		Note
Oral:	No informat	ion available		No information available -		-

No information available

No information available



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Aspira	tion hazard:	No in	formation avai	lable.			
Irritati	on and corrosion						
	Exposure		Species	Evaluation	Method	ľ	Vote
Skin corrosion/irritat	ion: 4h		t (sodium bisulphite)	-	-	no skin i	rritation
Serious eye damage/irritatio	Serious eye damage/irritation		t -		-	damage metabisu	
Sensit	ization						
Skin sensitizatio	n: No ir	nformation avail	lable				
Respiratory sens	sitization: No ir	nformation avail	lable				
Sympt	oms related to the	physical, chemi	cal and toxicol	ogical characte	istics		
Oral exposure:	May cause gastro				al pains and	cramps; hi	igher leve
	······································						
	May cause skin ir	ritation.					
exposure: Inhalation	May cause skin in May cause respire when used by ser gastrointestinal in	atory system irri nsitive persons l	•		•		•
Dermal exposure: Inhalation exposure: Eye exposure:	May cause respire when used by ser gastrointestinal in	atory system irri nsitive persons l ritation.	•		•		•
exposure: Inhalation exposure:	May cause respire	atory system irri nsitive persons l ritation.	•		•		•
exposure: Inhalation exposure: Eye exposure:	May cause respire when used by ser gastrointestinal in	atory system irri nsitive persons l ritation. ritation.	oronchospasm		•		•
exposure: Inhalation exposure: Eye exposure:	May cause respire when used by ser gastrointestinal in May cause eye in	atory system irri nsitive persons l ritation. ritation.	oronchospasm		•	a attack ai	•
exposure: Inhalation exposure: Eye exposure: Repea	May cause respire when used by ser gastrointestinal in May cause eye in	etory system irrinsitive persons britation. ritation. ubacute, subchr Exposure time	oronchospasm	may occur, as v	vell as asthm	on mation	nd
exposure: Inhalation exposure: Eye exposure: Repea Subacute oral	May cause respire when used by ser gastrointestinal in May cause eye in ted dose toxicity (s Dose No information	atory system irrinsitive persons britation. ritation. ubacute, subchr Exposure time No information available	ronic, chronic) Species No information	Method No information	Evaluation	on mation	nd
exposure: Inhalation exposure: Eye exposure:	May cause respire when used by ser gastrointestinal in May cause eye irr ted dose toxicity (s Dose No information available No information	atory system irrinsitive persons britation. ritation. ubacute, subchrubacute, su	ronic, chronic) Species No information available No information	Method No information available No information	Evaluation No infor available	on mation emation	nd



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Subchronic dermal			No informatio available	No n information		rmation ilable	No information available		-	
Subchronic inhalation	No i availa	nformation ble	No informatio available	No n information		rmation ilable	No information available		-	
Chronic oral No information available		No informatio available	No nation information		rmation ilable	No inform available	nation	-		
Chronic dermal No information available		No informatio available	No n information		rmation ilable	No information available		-		
Chronic inhalation	No i availa	nformation ble	No informatio available	No n information		rmation ilable	No inform available	nation	-	
Specific	c target	organ toxici	ty – repeate	ed exposure (S	STOT RE):					
1		Specific effe	•		Target organ			Note		
Subacute oral		No informa	ition availab	le	No info	rmation a	vailable	_		
Subacute derma	l	No informa	ition availab	le	No info	rmation a	vailable	-		
Subacute inhalat	ion	No informa	ition availab	le	No info	No information available		-		
Subchronic oral		No informa	ition availab	le	No info	rmation a	vailable	-		
Subchronic derm	nal	No informa	ition availab	le	No info	No information available		-		

	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic 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 (carcinogenicity; muta	agenicity; reproductive toxicity)
Carcinogenicity:	Contains a component that has been reported to probably carcinogenic. Possible human carcinogen.
Mutagenicity in vitro:	No information available
Genotoxicity:	No information available
Mutagenicity in vivo:	No information available
Germ cell mutagenicity:	No information available
Reproductive toxicity:	No information available



Persistence and degradability

12.2

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	Summary of evaluation of the CMR properties:
11.2	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	No known endocrine disrupting properties that affect human health.
11.2.2.	Other information:
	-

SECTION 12. E	cological info	rmation				
12.1 Toxici	ty					
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Golden orfe (sodium metabisulphite) Mosquito fish (hydrochloric acid)	No information available	316 mg/l (sodium metabisulphite) 282 mg/l (hydrochloric acid)	-
Crustacea:	EC ₅₀	48 hours	Daphnia magna (sodium metabisulphite)	No information available	89 mg/l (sodium metabisulphite)	-
Algae/aquatic plants	IC ₅₀	4 days	Green algae (sodium metabisulphite)	No information available	43.8 mg/l (sodium metabisulphite)	-
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	-	-	-	-	-	-



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		adation								
	De	gradation h	alf-lives	Me	ethod	Į.	Evaluation			Note
Marine water	No in	nformation a	vailable	No inf availat	ormation ole	No information available			-	
Fresh water	No in	nformation a	ıvailable	No inf availat	ormation ole	No information available			-	
Air	No in	nformation a	vailable	No inf availat	ormation ole	No info	rmation le		-	
Soil	No information available		vailable	No inf availat	ormation ole	No info	rmation e		-	
Biod	egradati	ion								
% Degradat		Time (davs)	Me	ethod		Evaluation			Note
		formation		formation		rmation		No infor	mation	
		tive potenti								
Value		er partition entration	рН	°C	w) Metho	d	Evalua -	tion	-	Note
- Bioco	Conce	entration	pH - (BCF)	°C -	Metho	d	-		-	
-	Conce - oncentra	entration ation factor Speci	pH - (BCF)	°C -	Method ormation	No		n	-	Note
Bioco Value No informatio available	oncentra n Na	entration ation factor Speci o in vailable	pH - (BCF)	°C	Method ormation	No	- Evaluatio informatio	n		
Bioco Value No informatio available	Conce - oncentra	entration ation factor Speci o in vailable	pH - (BCF)	°C	Method ormation	No	- Evaluatio informatio	n		
Bioco Value No informatio available	Conce	entration ation factor Speci o in vailable	pH - (BCF) es formation	°C	Method ormation	No ava	- Evaluatio informatio	n		



SECTION 13. Disposal considerations

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Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	information in			No No nformation informati available available		1	No informati n availabl		
12.4	Mobility in soil										
	Known o		ed distribut vailable	ion ir	n environm	ental	compartn	nents:			
	Surface t	ension:									
	Value	ue °C Concentratio Method			Note						
	available		No informati available	on	No information available			-			
Transpo	rt H	A/D coef lenry's co	ficient	log Kow No information available			Evaporation rate No information available			thod	Note
Soil-wat	er No avai	in lable	formation						No into availabl	rmation e	-
Water-a	ir No avai	in lable	formation		informatio lable		No information available	tion	No info availabl	rmation e	-
Soil-air	No avai	in lable	formation		information lable	on No informa		tion	No information available		-
12.5.	Results of PBT and vPvB assessment										
	Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB										
	i										
	Endocrine disrupting properties										
12.6.	Lindociiii				antain can	noar	ents consid	dered t	to have e	ndocrine d	disrupting propertie
12.6.	The subs	g to REA		57(f) c	or Commiss	ion D	elegated			2017/210	O or Commission
12.6.	The subs accordin Regulation	g to REA	CH Article 5 018/605 at	57(f) c	or Commiss	ion D	elegated			2017/2100	



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13.1	Weste treatment methods	
13.1	Waste treatment methods	
13.1.1.	Droduct/Dodroging dispose	s.l.
13.1.1.	Product/Packaging disposal:	
	Protection.	legal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste design	ations according to Law:
	Packaging that contains re	sidual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevant	t information:
	No information available	
13.1.4.	Sewage disposal – relevant	: information:
	Waste must not be dispose	ed of into the sewage system.
13.1.5.	Other disposal recommend	dations:
	authorized by the ministry	duct'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 ctors authorized by the ministry in charge.
13.1.6.	Relevant Community provi	sions:
-		
SECTION	N 14. Transport information	
	Transporting/shipment by re	oad (ADR)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing group:		-
Environmentally hazardous:		-
Special precautions for user:		-
Transporting/shipment by ra		ail (RID)
UN number:		Not subject to transport regulations
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environmentally hazardous:		-



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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 (I	MDG)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
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	CAO-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 en	vironmental regulations/legislation specific for the substance or mixture		
	EU regulations			
	Authorization and/or	restrictions of use		
	Authorizations:	-		
	Restrictions:	-		



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	None	
15.2	Chemical safety assessme	ent
	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
	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-
	Other EU regulations:	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);
		Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and

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:	-



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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classifi	Classification		Classification procedure	
-			-	
16.5.	Rel	evant H statements (nun	nber and full text)	
		302	Harmful if swallowed.	
		314	Causes severe skin burns and eye damage	
	H:	318	Causes serious eye damage.	
		331	Toxic if inhaled.	
		350	May cause cancer.	
		EUH031	Contact with acids liberates toxic gas.	
16.6.	Tra	ining advice:	-	
	5.7. Further information:		** "X" in the product code marks different volumes (different packagings 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
-