

# 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)



Page 1 of 16

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

SECTI	ON 1 IDENTIFICATION	OF THE SUE	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	PERIODIC	PERIODIC ACID, LEUKOGNOST		
	Chemical name:	-	-		
	Catalogue number:	PKL-OT-X**			
1.2.	Relevant identified use	es of the sub	ostance or mi	xture and uses advised against	
	Uses:		For use w	ith special staining kits.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier of the safety data sheet				
	Supplier: Bi		BioGnost Ltd.		
	Address: N		Medjugorska	Medjugorska 59, Zagreb	
	Telephone number:	Telephone number: +		997	
	Fax no.: +3		+385 1 24040	-385 1 2404039	
	e-mail of competent person: <u>m</u>		msds@biognost.hr		
	National contact:				
1.4.	Emergency telephone number				
	National Protection ar	nd Rescue D	irectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	N 2 HAZARDS INFORMATION			
2.1.	Classification of the substance or	mixture		
2.1.1.	Classification (REGULATION (EC) N	lo. 1272/2008	(CLP)	
	Hazard class and category	code:		Hazard statements*:
	Not identified as hazardous substa	ance.	-	
2.1.2.	Additional information			
	-			
*For ful	l text of Hazard- and EU Hazard-sta	tements: see S	ection 16	
2.2.	Classification according to EC Dire	ective Nr. 1272,	/2008 CLP)	
	Product identification:	PERIODIC AC	ID, LEUKOGNOST	
	Identification number:	-		
	Authorization no.:	-		
	Hazard pictograms:	-		



Page 2 of 16

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

	Signal word: -			
	Hazard statements: -			
	Precautionary statements: -			
	Further information: -			
2.3.	Other hazards			
	Endocrine Disrupting Properties: No known endocrine disrupting properties			
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is r PBT or a vPvB.			

SECTION 3 CO	MPOSITION/INFO	RMATION ON INGR	EDIENTS	
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
-	-	-	-	-

SECTION	ON 4 FIRST AID MEASURES		
4.1.	Description of first aid meas	ures	
	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 ai	der:	Treat symptomatically.
4.2. Most important symptoms and effects, both acute and delayed		ects, both acute and delayed	
	Following inhalation:		ation of large amounts of vapors in inadequately ventilated perimeter cause coughing, sneezing, headache and nausea.
	Following skin contact:		t irritation. After short exposure, resorption effects are not likely. Long- exposure may cause drying, cracking and tingling sensation of skin.



Page 3 of 16

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

	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 immediat	e medical attention and special treatment needed
	-	

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

SECTIO	ECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective equip	oment 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 Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containmer	it and cleaning up			



Page 4 of 16

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

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	DN 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 a not smoke.	nd ignition. Do	
	Measures to prevent aerosol and dust generation	Secure proper ventilation.		
	Measures to protect the environment:	Prevent spilling into the sewage sy waterways.	ystem and	
	Other measures:	-		
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. T	oughly wash hands after work and be	fore eating.	
7.2.	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	eep in tightly closed and upright set c entilated storage rooms, and away fro unlight, and other incompatible substa	om sources of heat,	
	Packaging materials:	lanufacturer's original packaging.		
	Requirements for storage rooms and vessels:	eep away from food and drink. Keep t ghtly closed.	he containers:	
	Advices for storage equipment:	he storage must be made of hard mat e resistant to chemicals. There must b irectly leads into sewage system. Secu entilation.	e no drain that	
	Further information on storage conditions:	o not place the unused material in the nd do not use empty containers for st nemicals. Do not store with incompati ection 9).	toring other	
7.3.	Specific end use(s)			



Page 5 of 16

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

Recommendations:	-
Industrial sector specific solutions:	-

SECTIO	ON 8 E	XPOSU	RE CON	TROLS/PER	SONAL	PROTI	ECTION			
8.1.	Cont	rol para	meters							
	Subs	tance		CASI	No			exposure limit term values	Bic	ological limit values
						F	opm	mg/m <sup>3</sup>	-	-
-				-			-	-	No infor	mation available
Substa name:	nce	-								
EC No: - CAS No: -										
DNEL										
						Ind	ustrial			
Route	of		Å	Acute		Acute	9	Chron	ic	Chronic
exposi	ure:		effe	ect local	effe	ect syst	temic	effect lo	ocal	effect systemic
Oral			-		-			-		-
Inhalat	ion		-		-			-		-
Derma	I		-	-			-		-	
Critical	physic	al para	neters: s	olubility, fla	mmabili	ty, corr	osivity:	-		
						Cor	nsumer	1		
Route	-			Acute		Acute		Chron		Chronic
exposi	ure:		effe	ect local	effe	ect syst	temic	effect lo	ocal	effect systemic
Oral			-		-			-		-
Inhalat	ion		-		-			-		-
Derma			-		-			-		-
PNEC										
Enviror	nmenta	l protec	tion tar	get			PNEC			
Fresh v							No information available			
		diment	S				No information available			
Marine	e water							mation availab		
Marine	sedim	ents					No infor	mation availab	e	
Food c	hain						No infor	mation availab	e	
Microo	organisı	ms in se	wage tr	eatment			No infor	mation availab	e	
Soil (ag	gricultu	ral)					No infor	mation availab	е	



Page 6 of 16

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

Air			No information available		
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	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.		
	Structural measures to preserve exposure:	revent	No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equi	pment			
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.		
8.2.2.2.	Skin protection				
	Hand protection:		ctive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long es (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a for organic vapors, type "A" (boiling point >65°C) acording to EN ') used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No in	formation available		
8.2.3.	Environmental exposure	controls			
	Substance/mixture relate measures to prevent exp		See Section 6		
	Structural measures to pr exposure:	revent	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to pr exposure:	event	See Section 6		

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



Page 7 of 16

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

	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
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

SECTIO	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.	

#### SECTION 11 TOXICOLOGICAL INFORMATION



Page 8 of 16

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

	city:					
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure 1	time	Results
Oral exposure:	No information available	-	LD <sub>50</sub>	-		-
Dermal exposure:	No information available	-	LD <sub>50</sub>	-		-
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-		-
Specific tar	get organ toxicity – si	ngle exposure (S	STOT SE):			
		ic effects		organ		Note
Oral exposure:	No information	available	No information	on available	-	
Dermal exposure:	No information	available	No information	on available	-	
Inhalation exposure	: No information	available	No information	No information available		
Irritation a	nd corrosion					
	Exposure time	Species	Evaluation	Method		Note
	_	rabbit	-			
Skin irritation:						
Skin irritation: Eye irritation:	-	rabbit	-			
		rabbit	-			
Eye irritation:			-			
Eye irritation: Sensitizatio	on	able				
Eye irritation: Sensitizatio Dermal exposure: Inhalation exposure:	on No information avail	able able				
Eye irritation: Sensitizatio Dermal exposure: Inhalation exposure:	on No information avail No information avail related to the physica Swallowing may c sensation; higher	able able I, chemical and t ause irritation of levels of concent g, aspiration cau	toxicological chara f mucosa, tingling tration may cause ises coughing, diff	cteristics sensation in th nausea, abdor	minal pa	ain and vomit



Page 9 of 16

Trading name:				Page 9 of 16 PERIODIC ACID, LEUKOGNOST						
Product code:	Pk	(L-OT-X**	Da	ate of com	pilation:	pilation: 21 Dec 2022		Version: 1		
Inhalation exposi	ure:	coughing, sn	eezing, heada	ache and na	usea.	-	-	neter may cause		
Eye exposure:		Direct eye co sensation.	ntact may cau	use slight to	moderate	e irritation,	lacrimation	and burning		
Reneate	d dos	e toxicity (sub	acute subchr	onic chroni	c)					
		Dose	Exposure time	Species		thod	Evaluatio	n Note		
Subacute oral	No avail	information able	No information available	No informati available		ormation iilable	No informatio available	on -		
Subacute dermal	No avail	information able	No information available	No informati available		ormation iilable	No informatio available	on -		
Subacute inhalation	No avail	information able	No information available	No informati available		ormation iilable	No informatio available	on -		
Subchronic oral	No avail	information able	No information available	No informati available		ormation iilable	No informatio available	on -		
Subchronic dermal	No avail	information able	No information available	No informati available		ormation iilable	No informatio available	on -		
Subchronic inhalation	No avail	information able	No information available	No informati available		ormation iilable	No informatio available	on -		
Chronic oral	No avail	information able	No information available	No informati available		ormation iilable	No informatio available	on -		
Chronic dermal	No avail	information able	No information available	No informati available		ormation iilable	No informatio available	on -		
Chronic inhalation	No avail	information able	No information available	No informati available		ormation iilable	No informatio available	on -		
Specific	target	t organ toxicit	v – repeated e	exposure (S	TOT RF):					
opeenie			pecific effects		-	Target org	an	Note		
Subacute oral		No informa	ition available			nation ava		-		
Subacute dermal		No informa	tion available	ļ	No inforr	mation ava	ilable	-		
Subacute inhalat	ion	No informa	ition available		No inforr	nation ava	ilable	-		



Page 10 of 16

Trading	name:	PERIODIC ACID, LEUKOGNOST								
Product	code:	PKL-OT-X**	Date o	of compilation:	21 Dec 2022	Version: 1				
Subchror	nic oral	No inform	ation available	No inform	nation available	_				
	nic dermal		ation available		nation available	-				
Subchronic inhalation No informatic				nation available	_					
		ation available		nation available	-					
Chronic o			ation available		nation available	-				
Chronic inhalation No informatic				nation available	-					
	CMR effec	cts (carcinogenici	y, mutagenicity, re	productive toxicit	cy)					
	Carcinoge	enicity:	Current studi	es on test animal	s did not indicate ca	arcinogenic effects.				
	Mutageni	city <i>in-vitro:</i>	Current in v	Current <i>in vitro</i> tests did not indicate mutagenic effects.						
	Genotoxic	city:	No informati	on available						
	Mutageni	city <i>in-vivo</i> :	Current in v	<i>ivo</i> tests did not	indicate mutageni	ic effects.				
	Germ cell	mutagenicity:	No informati	on available						
	Reproduc	tive toxicity:	No toxicity organs.	No toxicity on reproductive organs was determined in reproductive organs.						
	Summary of evaluation of the CMR properties: -									
11.2	Informatio	on on other hazar	ds:							
11.2.1.	Endocrine	disrupting prope	erties:							
	contain have end according Commissi 2017/2100	ostance/mixture components co locrine disruptin to REACH Art on Delegated reg 0 or Commission 8/605 at levels	g properties icle 57(f) or gulation (EU) n Regulation							
	Other info	ormations:	i							
	-									

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



Page 11 of 16

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

Crustacea:		EC <sub>50</sub>	48 hou	rs	No information available		No formation available		-	-	
Algae/aquatic plants $IC_{50}$		IC <sub>50</sub>	8 days		No information available		No formation available		-	-	
Microorganisr	ns	LC <sub>50</sub>	72 hou	rs	-	-			-	-	
Chronic toxicity		Dose	Expos time		Species	I	Method	Evalu	lation	Note	
Fish		LC <sub>50</sub>	96 hours		No information available		ormation ilable	No informa availab		-	
Crustacea:		EC <sub>50</sub>	48 hou	rs	No information available		ormation ilable	No informa availab		-	
Algae/aquatic plants		IC <sub>50</sub>	72 hou	rs	No information available	No information available		No information - available		-	
Other organis	ther organisms				-	-		-		-	
	tic degra	ind degrada adation gradation ha			Method			Evaluatio	'n	Note	
Marine water		formation av		No			No inform			-	
Fresh water	No in	formation av	ailable	No	o information available No inf		No inforn	ormation available -		-	
Air	No in	formation av	ailable	No	information avail				nation available -		
Soil	No int	formation av	ailable	No			No inform	nation available -		-	
Biode	egradati	on									
% Degradatic	•	Time (day	s)		Method		Evaluatio	on	1	Note	
No information No available availabl		infor	mation	No i avail	nformation		o informati ⁄ailable	on	No information available		
12.3. Bioad	cumula	tive potentia	il								
Partit	ion coe	fficient: n-oo	tanol/wa	ter (l	og Kow):		:		:		
Value	Conce	entration	рΗ	°(	C Method		Evalu	ation		Note	



Page 12 of 16

Trading name:					PE	RIOD		, LEUK	OGNC	DST			
Produc	ct cod	e:	PKL-C	)T-X**		Date	e of co	mpilatio	on: 2	1 Dec	2022	Vers	sion: 1
-		No availa	inform able	ation _		-	No info availab	ormation le	-	inform ailable	ation	-	
	Bioc	oncen	tration	factor (B	~F)								
V	/alue			Species	-		Vetho	d	E	valuatio	on		Note
No info availab	ormatio	on	No availab	info	rmation		ormatio			ormatio		No info availabl	rmation
	Chrc	onic ec	otoxicit	у									
	Val	ue		Dose		Exposure time		ecies	Met	hod	d Evalua		Note
Chronic	c toxic	ity on	fish	LC <sub>50</sub>		information inf		mation able	No inform availat		No info availab	ormation lle	-
Chronic crustac		-	)	EC <sub>50</sub>		rmation lable	No infor availa	mation able	No inform availat		No info availab	ormation lle	-
12.4.	Mob	oility ir	ı soil										
		-		ed distrib	ution in	environn	nental	compart	ments:				
			ation av										
	Surfa	ace tei	nsion:										
	١	/alue		°C	(	Concentra	ation		Meth	bc			Note
	NoNoinformationinformationavailableavailable			o informa ailable	ition	No info availat	ormatio ole	'n	-				
	Adso	orptio	n / deso	rption									
Transpo		A	/D coef enry's co	ficient		og Kow	E	vaporatio	on rate		Method		Note
Soil-wa	ater	No availa		formatic		informati lable		o inform /ailable	nformation No inform able available			on _	



Page 13 of 16

							Page 13 of 16				
Trading	g name:		PERIODIC ACID, LEUKOGNOST								
Produc	t code:	PKL-OT-X**	PKL-OT-X** Date of compilation: 21 D			2022	Version: 1				
Water-a	air No avail	information able	No information available	No informatior available	-	nformation able	-				
Soil-air	No avail	information able	No information available	No informatior available		nformation able	-				
12.5.	Results of	f PBT and vPvB asses	ssment								
	according	ance/mixture does to REACH Article 5 n (EU) 2018/605 at l	7(f) or Commissio	n Delegated reg			e disrupting properties 00 or Commission				
12.6.	Endocrine disrupting properties										
	according	ance/mixture does g to REACH Article 5 n (EU) 2018/605 at l	7(f) or Commissio	n Delegated reg			e disrupting properties 00 or Commission				
12.7.	Other adv	verse effects									
	No inforn	nation available									
13.1.		OSAL CONSIDERA	HUNS								
13.1.1.	Product/Packaging disposal:										
	Submit Protect	for disposal to the l on.	egal person autho	rized by the Min	istry of Eı	nvironment	tal and Nature				
13.1.2.	Waste o	odes/waste designa	ations according to	o Law:							
	No info	rmation available									
13.1.3.		reatment – relevant	information:								
	No into	rmation available									
13.1.4.	Sewage	e disposal – relevant	information:								
	Waste r	nust not be dispose	d of into the sewa	ge system.							
13.1.5.	Other d	lisposal recommend	ations:								



Page 14 of 16

Trading name:		PERIODIC ACID, LEUKOGNOST					
Product code:	PKL-OT-X**	Date of compilation: 21 Dec 2022 Version: 1					
authoriz the pac	zed by the ministry in	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. Do not dispose of in places where					
13.1.6. Relevan	t Community provision	ons:					
SECTION 14 TRAN	NSPORT INFORMAT	ION					
Transport	ing/shipment by road	d (ADR)					
UN number:		Not subject to transport regulations.					
UN proper shippin	g name:	-					
Transport hazard o	lass(es):	-					
Packing group:		-					
Environmentally ha	azardous:	-					
Special precaution	s for user:	-					
Transport	ing/shipment by rail	(RID)					
UN number:		Not subject to transport regulations.					
UN proper shippin	g name:	-					
Transport hazard o	lass(es):	-					
Packing group:		-					
Environmentally ha	azardous:	-					
Special precaution	s for user:	-					
Inland wa	terway transport (AD	N)					
UN number:		Not subject to transport regulations.					
UN proper shippin	g name:	-					
Transport hazard o	lass(es):	-					
Packing group:		-					
Environmentally ha	azardous:	-					
Special precaution	s for user:	-					
Transport	ing/shipment by sea	(IMDG)					
UN number:		Not subject to transport regulations.					
UN proper shippin	g name:	-					
Transport hazard c	lass(es):	-					
Packing group:		-					
Environmentally ha	azardous:	-					
Special precaution	s for user:	-					



Page 15 of 16

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

Transporting/shipment by a	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 enviror	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations							
	Authorization and/or rest	rictions of use						
	Authorizations:	-						
	Restrictions:	-						
	Other EU regulations:	<ul> <li>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;</li> <li>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;</li> </ul>						
		<ul> <li>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;</li> <li>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;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>						



Page 16 of 16

Tradin	g name:		PERIODIC ACID, LEUKOGNOST							
Produc	ct code:	PKL-OT-X**	Date of compilation:	21 Dec 2022	Version: 1					
	National	legislation:	Chemicals Act, Regulation on class dangerous substances, Ordinance and on biological limit values, Reg classification of waste with a waste Ordinance on writing Material safe Substances Act	on occupational ex julation on categori e catalog and list of	posure limit va ies, types and f hazardous wa	alues aste,				
15.2.	Chemical	safety assessmer	nt							
	None									

SECTIO	TION 16 Other information					
16.1.	Indication of changes:	-				
16.2.	Abbreviations and acronyms:	<ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (UK REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> </ul>				
16.3.	Key literature references and source of data:	-				
16.4.	Classification and procedure us 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)				
Classifi	cation	Classification procedure				
-	-					
16.5.	Relevant H statements (numbe	r and full text)				
	H:					
16.6.	Training advice:					
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.				

# ANNEX: Exposure scenario resulting to Chemical safety assessment



Page 1 of 17

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

SECTI	ON 1: Identification of t	he substance	e/mixture a	and of the company/undertaking		
1.1.	Product identifier					
	Trading name:	SODIUM METABISULFITE, LEUKOGNOST				
	Chemical name:	-				
	Catalogue number:	NMLKG-OT	NMLKG-OT-X**			
1.2.	Relevant identified use	s of the subs	tance or m	ixture and uses advised against		
	Uses:		For use w	ith special staining kits.		
	Uses advised against:		Only the	identified uses are advised.		
	Reason why uses advis	ed 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: Bic		lioGnost Ltd.			
	Address:	M	Medjugorska 59, Zagreb			
	Telephone number:	+3	385 1 2409997			
	Fax no.:	+3	+385 1 2404039			
	e-mail of competent p	erson: <u>m</u>	msds@biognost.hr			
	National contact:	-	-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection an	d Rescue Dir	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regula	ation (EC) No 1272/20	08 (CLP)			
	Hazard class and cated	gory code:	Hazard statements*:			
	Eye Dam. 1		H318			
			EUH031			
2.1.2.	Additional information					
	-					
*For full	text of Hazard- and EU Hazard-sta	atements: see Section	16			
2.2.	Label elements					
	Product identification:	SODIUM METABISUL	.FITE, LEUKOGNOST			
	Identification number:	-				
	Authorization no.:	-				



Page 2 of 17

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:	<ul> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</li> <li>P308+P313 IF exposed or concerned: Immediately call a POISON CENTER or physician.</li> </ul>
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Propert No known endocrine disrupting Results of PBT and vPvB asse 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)				
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 measu	ures				
	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.				



Page 3 of 17

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

	Following eye contact: Following ingestion:		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.		
			Rinse mouth. Call a doctor if you feel unwell.		
			Treat symptomatically.		
4.2.	Most important symptoms and effects, both acute and delayed				
	Following inhalation:	No i	nformation available		
	Following skin contact:	No i	nformation available		
	Following eye contact:	Risk	c of blindness, Risk of serious damage to eyes.		
	Following ingestion:	No i	nformation available		
4.3.	Indication of any immediate medical attention and special treatment needed				
	-				

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, foam, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Do not enter fire area without pro	oper protective equipment, including respiratory protection.			
5.4.	Additional information				
	Remove sources of heat and ignit	ion.			
	Do not contaminate the environm	nent with extinguishing media.			

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective e	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.				



Page 4 of 17

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

6.2.	Environmental precautions:							
	· · ·	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.						
6.3.	Methods and material for co	ntainment and cleaning up						
6.3.1.	Bunding, 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	n 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 generat	ion:	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	horough	ly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any inco	mpatibili	ties				
	Technical measures and storage conditions:		tightly closed and upright set containers in a well ed place.				
	Packaging materials:	Manufa	cturer's original packaging.				
	Requirements for storage rooms and vessels:		vay from food and drink. Keep the containers closed.				
	Advices for storage equipment:	tightly closed. The storage must be made of hard material; floors be resistant to chemicals. There must be no drain t directly leads into sewage system. Secure proper ventilation.					



Page 5 of 17

Trading	name:	SODIUM METABISULFITE, LEUKOGNOST								
Product	code:	NMLKG-OT-X**	Revisi	on date:	21 Dec 2022	Version:	2			
	Further in	Further information on storage conditions:			place the unused mate not use empty contair ls. Do not store with i 9).	ners for storing of	her:			
7.3.	Specific end use(s)									
	Recomme	endations:		-						
	Industrial sector specific solutions:									

SECTION 8. Expos	ure contr	ols/persona	al protec	tion				
8.1. Control p	arameters	;						
Substance		CASI	No	•		ll exposure limit rt term values	Bic	logical limit values
				ppm		mg/m <sup>3</sup>		-
-		-		-		-	No info	ormation available
Substance _ name:								
EC No: -		CAS No:	-					
DNEL								
				Industr	rial			
Route of		Acute		Acute		Chronic		Chronic
exposure:	effe	ect local	effe	ct systemic	:	effect local		effect systemic
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
Critical physical par	ameters:	solubility, fla	mmabilit	ty, corrosiv	vity:	-		
				Consun	ner			
Route of exposure:		Acute ect local		Acute ct systemic	:	Chronic effect local		Chronic effect systemic
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC								
Environmental prot	ection tai	rget		PN	EC			
Fresh water				No	infor	mation available		
Freshwater sedime	nts			No	No information available			
Marine water				No	infor	mation available		



Page 6 of 17

						Page 6 d				
name:		S	ODIUM METABISULFITE, LEUKOGNOST							
code:	NMLKG-OT-X**		Revisio	n date:	21 Dec 2022	Version:	2			
diments				No infori	mation available					
Food chain					mation available					
Microorganisms in sewage treatment					mation available					
Soil (agricultural)					mation available					
Air					mation available					
Exposi	ure controls									
· · ·										
Substa measu	ance/mixture related res to prevent expo		•			• •	otective			
	Structural measures to prevent exposure:			nation ava	ailable					
-	Organisational measures to prevent exposure:			Organization of work in order to reduce other worker's influence during work process.						
	•	-			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.					
Persor	nal protection equip	ment								
Eye an	d face protection:		Safety gla visor.	isses that	stick to face (preventi	ng splashing) (EN	l 166) or			
Skin p	rotection									
Hand	protection:	Chem 374.	mical protection gloves are suitable, which are tested according to EN Glove material: nitrile rubber Glove thickness: > 0.11 mm Break through time: >480 min							
Other	skin protection:		ar antistatic clothing made of natural fibers (such as cotton) with long ves (EN 13034), and shoes that cover the entire foot (EN 10335).							
Respir	atory protection:	In cas	se of inadeo	quate ven	tilation wear respirato	ry protection.				
Therm	al hazards:	No in	formation a	ormation available						
Enviro	nmental exposure c	ontrols	5							
Substance/mixture related measures to prevent exposure:			See Section 6							
		event	Use modern equipment.							
-		to		Adapt the work process to the required working conditions of the workplace. Keep away from drains, surface and ground water.						
	· · ·	event	See Section	e Section 6						
r	inisms in ultural) Expose Expose Engine Substa measu during Structe expose Organ prever Eye an Skin p Eye an Skin p Gresor Eye an Skin p Crgan prever Skin p Skin p Skin p	code: NMLKG-OT-X**   diments	code:NMLKG-OT-X**diments	code:NMLKG-OT-X**RevisiondimentsImage: Second	inde: NMLKG-OT-X** Revision date: diments No inform n No inform n No inform n No inform No information ava No information available Environmental exposure: No information available Environmental exposure: See Section 6 Structural measures to prevent No information available Environmental exposure: See Section 6 No information available Environmental exposure: No information available Environmental exposure: See Section 6 Structural measures to prevent No information available Environmental exposure: No information available Environmental exposure: See Section 6 No information available Environmental exposure: No information available Environmental exposure: No information available Environmental exposure: No information available Environmental exposure: See Section 6 Structural measures to prevent No information exposure: No information exposure: No information available Environmental exposure: See Section 6 Structural measures to prevent No information exposure: No informatio	code:       NMLKG-OT-X**       Revision date:       21 Dec 2022         diments       No information available       No information available         nisms in sewage treatment       No information available         ultural)       No information available         Engineering measures       No information available         Substance/mixture related measures to prevent exposure       Use the product in well ventilated rooms equipment. Do not eat, drink or smoke in order to reduce during work process.         Structural measures to prevent exposure:       Organization of work in order to reduce during work process.         Technical measures to prevent exposure:       Safety glasses that stick to face (preventi visor.         Skin protection       Safety glasses that stick to face (preventi visor.         Skin protection:       Chemical protection gloves are suitable, which is 374.         Hand protection:       In case of inadequate ventilation wear respirato         Other skin protection:       In case of inadequate ventilation wear respirato         Substance/mixture related measures to prevent exposure:       No information available         Other skin protection:       In case of inadequate ventilation wear respirato         Substance/mixture related measures to prevent exposure:       No information available         Chemical protection:       In case of inadequate ventilation wear respirato         Th	Barme:         SODIUM METABISULFITE, LEUKOGNOST           code:         NMLKG-OT-X**         Revision date:         21 Dec 2022         Version:           diments         No information available         No information available         No information available           niments         No information available         No information available         No information available           altural)         No information available         No information available         No information available           Engineering measures         Substance/mixture related measures to prevent exposure during identified uses:         Use the product in well ventilated rooms. Use personal previous exposure:           Organisational measures to prevent exposure:         Organization of work in order to reduce other worker's in during work process.           Personal protection equipment         Escure proper workspace ventilation in order to keep con levels in air below permitted levels.           Personal protection:         Safety glasses that stick to face (preventing splashing) (EN visor.           Skin protection:         Chemical protection gloves are suitable, which are tested accord 374.           Hand protection:         Wear antistatic clothing made of natural fibers (such as cotton) v sleeves (EN 13034), and shoes that cover the entire foot (EN 103           Respiratory protection:         Information available           Environmental exposure:         See Section 6			



Page 7 of 17

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

1.	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
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available

SECTIC	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.				



Page 8 of 17

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

11.1. Information	on on hazard classes as d	lefined in Regulatio	on (EC) No 12	72/2008	
Acute tox	icity:				
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	time	Recitite
Oral exposure:	No information available	-	LD <sub>50</sub>	-	-
Dermal exposure:	No information		LD <sub>50</sub>	-	-
Inhalation exposure:	No information available	-	LC <sub>50</sub>	-	-
Specific ta	arget organ toxicity – sing	gle exposure (STOT	SE):		1
	Specifi	c effects	Targ	et organ	Note
Oral exposure: No information avai		ailable	ble No information available		-
Dermal exposure:	No information av	ailable	ilable No informatio available		-
Inhalation exposure	e: No information av	ailable	No information available		-
Respirato	ry irritation:	No information	available		
Irritation a	and corrosion				
	Exposure time	Species	Evaluati on	Meth od	Note
Skin irritation:	-	-	-	-	
Eye irritation:	-	-	-	- (	Causes serious eye damage
Sensitizat	ion				
Dermal exposure:	No information availab	le			
•		le			



Page 9 of 17

							Page 9 d	
Trading name:			SOD	IUM METABI	SULFITE, LEUKO	OGNOST		
Product code:	٩	NMLKG-OT-X**		Revision date:	21 Dec 2022		Version:	2
Oral exposure:		No informati						
Dermal exposure		No informati						
Inhalation expos	ure:	No informati						
Eye exposure:		Causes serio	us eye dama	ge				
Depert				ronic chronic)				
кереат	ea ac	se toxicity (sur		nronic, chronic)				
		Dose	Exposure time	Species	Method	Evaluatio	on	Note
Subacute oral		information ilable	No informatior available	No information available	No information available	No infor available		-
Subacute dermal		information ilable	No informatior available	No information available	No information available	No information available		-
Subacute inhalation		information ilable	No informatior available	No information available	No information available	No information available		-
Subchronic oral	No avai	information ilable	No informatior available	No information available	No information available	No information available		-
Subchronic dermal		information ilable	No informatior available	No information available	No information available	No infor available		-
Subchronic inhalation		information ilable	No informatior available	No information available	No information available	No infor available		-
Chronic oral		information ilable	No informatior available	No information available	No information available	No infor available		-
Chronic dermal		information ilable	No informatior available	No information available	No information available	No infor available		-
Chronic inhalation		information ilable	No informatior available	No information available	No information available	No infor available		-
Specific	targ	et organ toxici	ty – repeated	l exposure (STO	T RE):			
			Specific effe		Target or	gan	<u> </u>	lote
Subacute oral		No informa	ation availabl	e	No information a	available	-	
Subacute derma	I	No informa	ation availabl	e	No information a	available	-	



Page 10 of 17

Trading r	name:	SODIUM METABISULFITE, LEUKOGNOST							
Product	code:	NMLKG-OT-X**	Revision date:	21 Dec 2022	Version: 2				
Subacute	inhalation	No information av	vailable	No information available	-				
Subchron	ic oral	No information av	vailable	No information available	-				
Subchron	ic dermal	No information av	vailable	No information available	-				
Subchron	ic inhalatio	n No information av	vailable	No information available	-				
Chronic oral		No information av	vailable	No information available	-				
Chronic dermal No inf		No information av	vailable	No information available	-				
Chronic in	halation	No information av	vailable	No information available	-				
(	CMR effect	s (carcinogenicity, mut	agenicity, reproductiv	e toxicity)					
(	Carcinogen	icity:	No information av	vailable					
1	Mutagenicity <i>in-vitro</i> :		No information av	No information available					
(	Genotoxicit	iy:	No information available						
1	Mutagenici	ty in-vivo:	No information available						
(	Germ cell n	nutagenicity:	No information available						
F	Reproducti	ve toxicity:	No information available						
			È						
5	Summary o	f evaluation of the CM	R properties:	_					
				L					
11.2. I	Informatior	n on other hazards:							
11.2.1. E	Endocrine d	disrupting properties:							
	No know properties t	n endocrine disru that affect human heal	ipting th.						
11.2.2. (	Other infor	mations:							
-	-								

SECTION 12. Ecological information									
12.1. Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-			
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-			
Algae/aquatic plants	IC <sub>50</sub>	8 days	No information available	No information available	No information available	-			
Microorganisms	LC <sub>50</sub>	72 hours	-	-	_	-			



Page 11 of 17

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

Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	$LC_{50}$	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	microorganisms	No information available	No information available	-

12.2.	Persistence and degradability
	Abiotic degradation

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

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

#### 12.3. Bioaccumulative potential

	Partition	coefficient:	n-octanol	/water (lo	g Kow):
--	-----------	--------------	-----------	------------	---------

Value	Concentration	рН	°C	Method	Evaluation	Note				
-	No information available	_	-	No information available	No information available	-				
Ы	Bioconcentration factor (BCF)									
Value	e Spe	cies		Method	Evaluation	Note				



Page 12 of 17

Trading	g name	:			S	ODIUN	1 ΜΕΤΑΒΙ	SULFITE, I	EUKO	GNOST			
Produc	t code	: N	MLKC	G-OT-X**		Revis	ion date:	21 Dec	2022		Versior	ר:	2
						1		1			8		4
No infor available			No information available		No info availab	ormation le	n No information available			No information available		on	
	Chror	nic ecoto	oxicity	,									
	Value Lose			osure me	Species	Meth	od	E١	valuation		Note		
Chronic toxicity on fish LC <sub>50</sub>		LC <sub>50</sub>	No information available		No informat ion available	No inform available	ation	No in availa	formation ble		-		
Chronic toxicity on crustacea ( <i>Daphnia</i> )			EC <sub>50</sub>	No information		No informat ion available	No inform available	ation	No information available		-		
12.4.	Mobi	lity in sc	soil										
	Know	n or pre	edicted	d distributi	on in e	environm	nental comp	partments:					
	No in	formatio	on ava	ailable									
	Surfac	ce tensio	on:										
	Va	lue		°C		Conce	entration	n Method			No	te	
	No inforn availa	nation ble	No information available		No information available		No information available		-				
	Adsor	rption /	desor	ption									
Transpo	ort		coeffi /'s cor	cient nstant	lo	g Kow	Evapoi	ation rate	М	ethod		Ν	lote
Soil-wat	Δr	lo Ivailable		ormation	No in availa	formatic ble	on No info availab	ormation le	No inf availat	ormatic ole	n -		
Water-a	ir i	vo Ivailable		ormation	No in availa	formatic ble	on No info availab	ormation le	No inf availat	ormatic ole	n -		
Soil-air		lo Ivailable		ormation	No in availa	formatic ble	on No info availab	ormation le	No inf availat	ormatic ole	n -		
12.5.	Resul	ts of PB	T and	vPvB asse	ssment								



Page 13 of 17

Pag										
Trading	j name:		SODIUM METABIS	SULFITE, LEUKOGN	OST					
Product	t code:	NMLKG-OT-X**	Revision date:	21 Dec 2022	Version:	2				
	No inforr	nation available								
12.6.	Endocrin	e disrupting properties								
12.0.		n endocrine disrupting p	roperties that affect th	e environment						
12.7.	Other adv	verse effects								
	No adver	se effects are expected.								
SECTIO	N 13. Disp	osal considerations								
13.1.	Waste t	reatment methods								
12.1.1	<b>.</b>									
13.1.1.		/Packaging disposal:	arcan authorized by	the Ministry of Enviror	montal and Natu	r0				
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.									
	:									
13.1.2.	Waste c	odes/waste designations	according to Law:							
	No info	rmation available								
13.1.3.		reatment – relevant infor	mation:							
	No info	rmation available								
13.1.4.	Sowage	disposal – relevant infor	mation:							
13.1.4.		nust not be disposed of i		n.						
13.1.5.	Other d	isposal recommendation	s:							
		dispose of the product's								
		zed by the ministry in cha kaging to the collectors a								
		may occur.	athonzed by the mini	stry in charge. Do not		Les where				
13.1.6.	Relevan	t Community provisions:								
	-									
SECTIO		sport information								
		ting/shipment by road (A								
UN num			Not subject to transpo	ort regulations.						
UN prop	per shippin	g name:	-							



Page 14 of 17

Trading name:	SODIUM METABISULFITE, LEUKOGNOST						
Product code:	NMLKG-OT-X**		Revision date:	21 Dec 2	2022	Version:	2
	·						
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally hazardous:		-					
Special precautions	for user:	-					
Transport	ing/shipment by rail (R	ID)					
UN number:		Not	t subject to transpo	ort regulatio	ons.		
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Inland wa	terway transport (ADN	)					
UN number:			t subject to transpo	ort regulatio	ons.		
UN proper shipping name:							
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	for user:	-					
Transport	ing/shipment by sea (l	MDG	)				
UN number:		Not	t subject to transpo	ort regulatio	ons.		
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transport	ing/shipment by air (IC	AO-1	TI/IATA-DGR)				
UN number:		Not	t subject to transpo	ort regulatio	ons.		
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Further information	n: The product is	not s	subject to classifica	ition.			



Page 15 of 17

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

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or rest	rictions of use			
	Authorizations:	-			
	Restrictions:	-			
	Other EU regulations:	<ul> <li>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;</li> <li>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 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;</li> <li>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;</li> <li>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</li> </ul>			
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act			
15.2.	Chemical safety assessme	ent			
	None				

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



Page 16 of 17

Tradin	ig name:		S	ODIUM METABIS	ULFITE, LEUKOGN	IOST	
Produ	ct code:	NMLKG-OT-X**		Revision date:	21 Dec 2022	Version:	2
16.2.	Abbreviat	ions and acronyms	:	dangereuses par rou Carriage of Dangerou IMDG: International M IATA: International M GHS: Globally H Chemicals EINECS: European Inv CAS: Chemical M Society) DNEL: Derived No-E LC50: Lethal concert LD50: Lethal dose, PBT: Persistent, Bi	Maritime Code for Dang Air Transport Association armonised System of ventory of Existing Com Abstracts Service (divis Effect Level (UK REACH) ntration, 50 percent	nt Concerning the l lerous Goods n Classification and mercial Chemical Su ion of the America c	International Labelling of ubstances
16.3.	Key litera source of	ture references and data:	nd _				
16.4.	Classificat 1272/200	•	used to	o derive the classifica	ation for mixture acco	ording to Regulation	on (EC)
Classifi	cation		Classif	ication procedure			
-			-				
16.5.	Relevant	H statements (num	ber and	full text)			
	302		Harmf	ul if swallowed.			
	H: 318		Causes	s serious eye damag	e.		
	EUH	)31	Conta	ct with acids liberate	s toxic gas.		
16.6.	Training a	advice:	-				
16.7.	Further in	formation:	the pro We are instruc	oduct) e not responsible for	marks different volun consequences in cas roper use of the prod	e of failure to cor	nply with

# ANNEX: Exposure scenario resulting to Chemical safety assessment



Page 1 of 17

Trading name:	HCL REAGENT, LEUKOGNOST PAS				
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2

1.1	Product identifier					
	Trading name: HCL REAGE		NS, LEUKO	DGNOST PAS		
	Chemical name:	-				
	Catalogue number: HCLLP-OT->		X**			
1.2	Relevant identified us	Relevant identified uses of the substan		nixture and uses advised against		
	Uses:	Uses:		with special staining kits.		
	Uses advised against:		Only the	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:	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and catego	ory code:		Hazard statements*:	
	Skin Corr. 1A		H314		
	STOT SE 3		H335		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	HCL REAGENT,	LEUKOGNOST PAS		
	Identification number:	-			
	Authorization number:	-			



Page 2 of 17

Trading name:	HCL REAGENT, LEUKOGNOST PAS					
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2	

	Hazard pictograms:	GHS05 GHS07
	Signal word:	Danger
	Hazard statements:	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
	Precautionary statements:	<ul> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308 + P313 IF exposed or concerned: Get medical advice/attention.</li> </ul>
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Propertie 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.		



Page 3 of 17

Trading name:	HCL REAGENT, LEUKOGNOST PAS				
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2

	Following skin contact:	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.	
4.3	Indication of any immediate medical attention and special treatment needed		

SECTION 5. Firefighting measures			
5.1	Extinguishing media		
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol resistant foam	
	Unsuitable extinguishing media:	Water 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 contaminate the environment with extinguishing media.		

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



Page 4 of 17

Trading name:		HCL REAGENT, LEUKO	GNOST PAS		
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2

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, c Protection and Rescue Directo	Irainage system and waterways. In case of large spillage contact National rate (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 of	on safe handling.			
	See Section 8 for information of	on personal protection equipment.			
	See Section 13 for disposal information.				

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



Page 5 of 17

Trading name:		HCL REAGENT, LEUKO	DGNOST PAS	
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version: 2

	Do not eat, drink or smoke in the workspace. Th	noroughly wash hands after work and before eating.
7.2	Conditions for safe storage, including any incon	npatibilities
	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. Expe	osur	re contro	ols/perso	onal pr	rotect	tion					
8.1 Control	para	ameters									
Substan	ce		CA	S No		•	ational es/short	•	sure limit values		Biological limit values
						рр	m	n	ng/m³		
Hydrogen chloric	le		764	7-01-0		5/1	10		8/15	-	
Substance name:		-									
EC No:		-	CAS No	):	-						
DNEL								•			
						Indus	strial				
Route of		Acu	ıte		Acute	e		Ch	ironic		Chronic
exposure:		effect	local	effe	ct sys <sup>.</sup>	temic		effe	ct local		effect systemic
Oral	-			-			-				-
Inhalation	-	-		-			-				-
Dermal	-			-			-				-
Critical physical p	arar	meters: s	olubility,	flamm	ability	y, corros	sivity:		-		
						Cons	umer				



8.2.2.

8.2.2.1.

8.2.2.2.

Eye and face protection:

Skin protection

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

Page 6 of 17

Trading name:		HCL REAGENT, LEUKO	GNOST PAS		
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2

Route of exposure		Acute effect local	Acute effect systemi	Chronic c effect local	Chronic effect systemic	
Oral		-	-	-	-	
Inhalatio	n	-	-	-	-	
Dermal		-	-	-	-	
PNEC						
Environm	nental protec	ction target		PNEC		
Fresh wa	ter			no information availabl	e	
Freshwat	er sediments	S		no information availabl	e	
Marine w	/ater			no information availabl	e	
Marine s	ediments			no information available		
Food cha	ain			no information available		
Microorg	janisms in se	wage treatment		no information available		
Soil (agri	cultural)			no information availabl	e	
Air				no information availabl	e	
8.2	Exposure	e controls				
8.2.1.	Appropr	iate engineering o	controls			
		ce/mixture relatec exposure during i		-	ventilated rooms. Use personal Do not eat, drink or smoke in the	
	Structura exposure	al measures to pre e:	event	In accordance with Sect	tion 7.	
	Organisa exposure	ational measures 1 e:	o prevent	Organization of work in order to reduce other worker's influence during work process.		

Technical measures to prevent exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.
Personal protection equipment	
Safety	glasses that stick to face (EN 166) or visor in case of lower

levels of concentration in air; protective gas mask that covers the

entire face in case of higher levels of concentration in air.



Page 7 of 17

Trading name:		HCL REAGENT, LEUKO	DGNOST PAS		
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2

	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
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information 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	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				
	Lover and upper explosion limit:	No information available	No information available				
	Flash point:	No information available	No information available				
	Auto-ignition temperature:	No information available	No information available				
	Decomposition temperature:	No information available	No information available				



Page 8 of 17

Trading name:		HCL REAGENT, LEUKOGNOST PAS							
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2				

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

SECTIO	ON 11. To>	cicological information	I							
11.1	Informat	ation on toxicological effects								
	Acute to	xicity:								
Route of exposure:		Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure time	Results				
Oral:		No information available	-	No information available	-	-				
Dermal:		No information available	-	No information available	-	-				
Inhalation:		No information available	-	No information available	-	-				
	Specific	target organ toxicity – s	ingle exposure	(STOT SE):						
		Specific e	ffects	Target organ	n	Note				
Oral:		No information avai	lable	No information available -						
Dermal	:	No information avai	lable	No information avail						



Page 9 of 17 Trading name: HCL REAGENT, LEUKOGNOST PAS Product code: Date of compilation: 21 December 2022 Version: 2 HCLLP-OT-X\*\* Inhalation: No information available No information available \_ Aspiration hazard: No information available. Irritation and corrosion Exposure time Species Evaluation Method Note Skin \_ \_ \_ corrosion/irritation: Serious eye \_ \_ \_ damage/irritation Sensitization No information available. Skin sensitization: Respiratory sensitization: No information available. Symptoms related to the physical, chemical and toxicological characteristics No information available. Oral exposure: Dermal exposure: No information available. Inhalation exposure: No information available. Eye exposure: No information available. Repeated dose toxicity (subacute, subchronic, chronic) Exposure **Species** Method Evaluation Note Dose time No No No No No information Subacute oral information information information information \_ available available available available available No No No No Subacute No information information information information information dermal available available available available available No No No No No information Subacute information information information information \_ inhalation available available available available available No No No No No information Subchronic oral information information information information \_ available available available available available No No No No Subchronic No information information information information information \_ available dermal available available available available



Page 10 of 17

Trading name:		HCL REAGENT, LEUKOGNOST PAS							
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2				

Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	_

Specific target	organ toxicity - repeated exposure (S	fot re):	
	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	-

	Carcinogenicity:	Base	ed on available data, the classification criteria are not met.			
	Mutagenicity in vitro:	Base	ed on available data, the classification criteria are not met.			
	Genotoxicity:	Based on available data, the classification criteria are not met.				
	Mutagenicity in vivo:	<ul><li>Based on available data, the classification criteria are not met.</li><li>Based on available data, the classification criteria are not met.</li><li>Based on available data, the classification criteria are not met.</li></ul>				
	Germ cell mutagenicity:					
	Reproductive toxicity:					
	Summary of evaluation of the properties:		Based on available data, the classification criteria are not met.			
11.2	Information on other hazards:					
11.2.1.	Endocrine disrupting properties:					



Page 11 of 17

Trading name:		HCL REAGENT, LEUKOGNOST PAS							
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2				
· · · ·									

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

SECTION 12. E	cologi	cal informat	ion					
12.1 Toxicit	y							
Acute (short-te toxicity	rm)	Dose	Exposure time	Species	Method	Eva	luation	Note
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No inform availal		-
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No inform availal		-
Algae/aquatic plants		IC <sub>50</sub>	4 days	No information available	No information available		lo nformation - vailable	
Other organism	าร	-	-	-	-	-		-
Chronic (long-term) toxicity		Dose	Exposure time	Species	Method	Eva	luation	Note
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No information available		-
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No information available		-
Algae/aquatic plants		IC <sub>50</sub>	72 hours	No information available	No information available	No information available		-
Other organism	าร	-	-	-	-	-		-
		nd degradab	ility					
Abioti	c degra				1			
	De	gradation ha	lf-lives	Method	Evaluatio	Evaluation		Note
Marine water	No ir	nformation a		No information available	No information		-	
Fresh water	No ir	nformation a		No information available	No information available	n	-	



			-	Regulation			Page	e 12 of 17	
			HCL	REAGENT, L	EUKOGN	OST PAS			
HCLLP-OT-X**		Date	e of compilati	on: 21	Decembe	r 2022	Version:	2	
No inforn	In information available				No informa available	ation	_		
No inforn	nation avail	able			No informa available	ation	-		
radation									
	Time (days	;)	N	Nethod	Evalu	ation		Note	
No	inforn				No informa available	ation			
ımulative p	ootential		-				1		
l-water par	rtition coeff	icient (	log Kow	()					
Concentra	tion p	»Н	°C Method		Evaluation			Note	
centration	factor (BCF)	)							
		-		Method	Eval	uation		Note	
No availat	information		No information available		No information available		-		
	Dose			Species	Metho	d Evalı	uation	Note	
on fish	LC <sub>50</sub>			No information available	No informati available			-	
Chronic toxicity on crustacea ( <i>Daphnia</i> )		No information available		No information	No informati	No on inform	nation	_	
	HCLLI	HCLLP-OT-X** No information availation No information availation No information inform available No inform available I-water partition coeff Concentration factor (BCF) Concentration factor (BCF) Species No inform available Cecotoxicity Dose		HCLLP-OT-X**       Date         No information available       No information available       No information available         No information available       No information available       No information available         radation       Time (days)       No         No information available       No information available       No information available         No information available       No information available       No information available         Imulative potential       I       I       I         I-water partition coefficient (log Kow Concentration pH       °C       I         I-water partition factor (BCF)       I       I         Species       No information available       No information available         No information factor (BCF)       Species       I         Imulative potential       I       I         I-water partition factor (BCF)       I       I         Imulation available       Information available       I         Imulation available       I       I         Imulation avail	HCLLP-OT-X**       Date of compilation         No       information available       No information available       No information available         No       information available       No information available       No information available         radation       Time (days)       Method         No       information available       No information available         No       information available       No information available         Immulative potential       No information available       No information available         Immulative potential	HCLLP-OT-X**       Date of compilation:       21         No information available       No information available       No information available       No information available         No information available       No information available       No information available       No information available         radation       Time (days)       Method       Evalue         no       information available       No information available       No information available         No       information available       No information available       No information available         no       information available       No information available       No information available         numulative potential       No       No       No       No         level       pH       °C       Method       Evalue         level       species       Method       Evalue         No       informa	HCLLP-OT-X**       Date of compilation:       21 December         No       information available       No information available       no information available       no information available       no information available       no information available       no information available       no information available       No inform	HCL REAGENT, LEUKOGNOST PAS         HCLIP-OT-X**       Date of compilation:       21 December 2022         No information available       No information available       No information available       -         No information available       No information available       No information available       -         No information available       No information available       No information available       -         Immulative potential       No information available       No information available       No information available       No information available         Invaliable       No information available       No information available       No information available       No information available         Immulative potential       Immulative potential       Immulative potential       Immulative potential       Immulative potential         I-water partition coefficient (log Kow)       P       °C       Method       Evaluation         Immulative potential       Immulative potential       Immulative potential       Immulative potential       Immulative potential         I-water partition coefficient (log Kow)       P       °C       Method       Evaluation       Immulative potential         I-water partition factor (BCF)       Immulative potential       Immulative potential       Immulative potential       Immulative potential <td< td=""><td>HCL REAGENT, LEUKOGNOST PAS         HCLLP-OT-X**       Date of compilation:       21 December 2022       Version:         No information available       No information available       No information available       -       -         No information available       No information available       No information available       -       -       -         Information available       No information available       No information available       -       -       -         radation       1       Time (days)       Method       Evaluation       Note       No information available       -       -       -       -       -       -       -       -       -       -       -       -</td></td<>	HCL REAGENT, LEUKOGNOST PAS         HCLLP-OT-X**       Date of compilation:       21 December 2022       Version:         No information available       No information available       No information available       -       -         No information available       No information available       No information available       -       -       -         Information available       No information available       No information available       -       -       -         radation       1       Time (days)       Method       Evaluation       Note       No information available       -       -       -       -       -       -       -       -       -       -       -       -

Known or predicted distribution in environmental compartments:



Page 13 of 17

Trading name:	HCL REAGENT, LEUKOGNOST PAS				
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2

	No	informatio	No information available					
	Surf	face tensio	on:					
	,	Value	°C	Concentratio	n Metł	nod		Note
		rmation ilable	No information available	No informatior available	n No informati available	on	-	
	Ads	orption /	desorption					
Transpo	ort	-	coefficient y's constant	log Kow	Evaporation rate	Meth	od	Note
Soil-wa	ter	No available	information	No information available	No information available	No inforn available	nation	-
Water-a	air	No available	information	No information available	No information available	No inforn available	nation	-
Soil-air		No available	information	No information available	No information available	No inforn available	nation	-
	_							
12.5.			and vPvB asses	ssment				
	NOT	applicabl	е.					
12.6.	End	ocrine dis	rupting properti	es				
				ng properties that	affect the environ	ment.		
	:							
12.7.	Oth	er adverse	e effects					
	No further relevant information available.							
			l consideration	S				
13.1	W	aste treat	ment methods					
13.1.1.	Pr	roduct/Pac	kaging disposa	:				
		ubmit for o rotection.	disposal to the l	egal person autho	rized by the Minis	try of Enviror	nmental ar	nd Nature



Page 14 of 17

Trading name:	HCL REAGENT, LEUKOGNOST PAS				
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version: 2	

	15 01 10*: Packaging that contains residual hazardous substances or is contaminated with hazardous substances				
13.1.3.	Waste treatment – releva	ant information:			
	No information available				
13.1.4.	Sewage disposal – releva	int information:			
		osed of into the sewage system.			
13.1.5.	Other disposal recomme	ndations:			
13.1.3.	Do not dispose of the pr authorized by the minist	oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge.			
13.1.6.	Relevant Community pro	visions:			
	Disposal must be made a	according to official regulations.			
SECTIO	N 14. Transport informati	on			
	Transporting/shipment by				
UN num		1789			
UN proper shipping name:		Hydrochloric acid, solution			
Transpo	rt hazard class(es):	8			
Packing	group:	II			
Environr	mentally hazardous:	-			
Special	precautions for user:	-			
	Transporting/shipment by	rail (RID)			
UN num	ıber:	1789			
UN prop	per shipping name:	Hydrochloric acid, solution			
Transpo	rt hazard class(es):	8			
Packing	group:	II			
Environr	mentally hazardous:	-			
Special <sub>I</sub>	precautions for user:	-			
	Inland waterway transport	(ADN)			
UN num	ıber:	1789			
UN prop	per shipping name:	Hydrochloric acid, solution			
Transpo	rt hazard class(es):	8			
Packing	group:	II			



Page 15 of 17

Trading name:	HCL REAGENT, LEUKOGNOST PAS				
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2

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:	Ш
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	1789
UN proper shipping name:	Hydrochloric acid, solution
Transport hazard class(es):	8
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTIC	SECTION 15. Regulatory information			
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorization and/or restric	tions of use		
	Authorizations:	-		
	Restrictions:	-		



Page 16 of 17

Trading name:		HCL REAGENT, LEUKO	DGNOST PAS		
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version:	2

	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 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 1999 guideline)	/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 assessment	
	None	

SECTIO	SECTION 16. Other information		
16.1	Indication of changes:	-	
16.2	Abbreviations and acronyms:	PBT vPvB LD <sub>50</sub> LC <sub>50</sub> TCOJ	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure
16.3.	Key literature references and source of data:	-	
16.4.	16.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classification		Classification prod	cedure
-		_	
16.5.	Relevant H statements (numbe	er and full text)	



Page 17 of 17

Trading name:	HCL REAGENT, LEUKOGNOST PAS				
Product code:	HCLLP-OT-X**	Date of compilation:	21 December 2022	Version: 2	

	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 assessment	
-	



Page 1 of 17

Trading name:	BIOSCHIFF FORTE REAGENT				
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4

1.1	Product identifier					
	Trading name:	BIOSCHIFF	FORTE RE	AGENT		
	Chemical name:	-				
	Catalogue number:	BSF-OT-X**				
1.2	Relevant identified us	es of the subs	stance or i	mixture and uses advised against		
	Uses:		For use	with special staining kits.		
	Uses advised against:		Only the	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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone number					
	National Protection a Directorate:	nd Rescue		112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance	e or mixture				
2.1.1	Classification according to Re	egulation (EC) No 1	272/2008 (CLP)			
	Hazard class and cate	gory code:		Hazard statements*:		
	Carc. 1B		H350			
	-		EUH031			
2.1.2.	Additional information					
	-					
*For full	text of Hazard- and EU Hazard	l-statements: see S	SECTION 16			
2.2	Label elements					
	Product identification:	BIOSCHIFF FOR	TE REAGENT			
	Identification number:	-				



Page 2 of 17

Trading name:	BIOSCHIFF FORTE REAGENT				
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4

	Authorization number:	-
	Hazard pictograms:	GHS08
	Signal word:	Danger
	Hazard statements:	H350 May cause cancer. EUH031 Contact with acids liberates toxic gas.
	Precautionary statements:	<ul> <li>P201 Obtain special instructions before use.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</li> <li>P308 + P313 IF exposed or concerned: Get medical advice/ attention.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local regulations.</li> </ul>
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	erties:
	No known endocrine disrupt	ing properties
	<b>Results of PBT and vPvB as</b> PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

SECTION 3. Con	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				

SECTIO	SECTION 4. First aid measures				
4.1	Description of first aid measures				



Page 3 of 17

Trading name:	BIOSCHIFF FORTE REAGENT						
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4		

	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 ef	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.
4.3	1 II	ical attention and special treatment needed

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	Water jet			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Sulfur oxides.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				



Page 4 of 17

Trading name:	BIOSCHIFF FORTE REAGENT					
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4	

Do not contaminate the environment with extinguishing media.

	ON 6. Accidental release measu			
6.1	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Use protective equipment; in a (see Section 8).	case of inadequate ventilation use adequate airways protective equipment		
6.2	Environmental precautions:			
	Do not dispose of in sewage, o Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.		
6.3	Methods and material for cont	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	See Section 7 for information on safe handling.		
	See Section 8 for information	See Section 8 for information on personal protective 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.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			



Page 5 of 17

Trading name:	BIOSCHIFF FORTE REAGENT				
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4

	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 incor	npatibilities		
	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 p	arameters						
Substance		CAS No			Occupational exposure limit values/short term values		ological limit values
				ppm	mg/m <sup>3</sup>		-
sodium metabisulf	ite	7681-57	7-4	-/-	5/-	No i	nformation available
Substance name:	-	-					
EC No:	-	CAS No	: -				
DNEL							
				Industrial			
Route of	Αςι	ute		Acute	Chronic	2	Chronic
exposure:	effect	local	effect systemic		effect loc	al	effect systemic
Oral	-		-		-		-
Inhalation	-		-		-		-



Page 6 of 17

Trading name:		<b>BIOSCHIFF FORTE R</b>	REAGENT		
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4

Dermal		-	-		-	-	
Critical pl	hysical pai	rameters: solubility,	flammability, o	corrosivity	-		
				Consumer			
Route of		Acute	Acut	-	Chronic	Chronic	
exposure	2:	effect local	effect sys	temic	effect local	effect systemic	
Oral		-	-		-	-	
Inhalatior	า	-	-		-	-	
Dermal		-	-		-	-	
PNEC				-			
Environm	ental prot	tection target		PNEC			
Fresh wat	ter			No info	ormation available		
Freshwate	er sedime	nts		No info	ormation available		
Marine w	ater			No info	ormation available		
Marine se	ediments			No info	ormation available		
Food cha	in			No info	ormation available		
Microorg	anisms in	sewage treatment		No info	No information available		
Soil (agrio	cultural)			No info	No information available		
Air				No info	No information available		
8.2		ure controls					
8.2.1.	Appro	priate engineering	controls	1			
		ance/mixture related nt exposure during i		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
		Structural measures to prevent exposure:			In accordance with Section 7.		
	-	Organisational measures to prevent exposure:			Organization of work in order to reduce other worker's influence during work process.		
	Techni	echnical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Persor	nal protection equip	oment				
		Eye and face protection: Safety levels		ty glasses that stick to face (EN 166) or visor in case of lower is of concentration in air; protective gas mask that covers the re face in case of higher levels of concentration in air.			
8.2.2.1.	Eye an	d face protection:			-	-	
8.2.2.1. 8.2.2.2.	-	d face protection: rotection			-	-	



Page 7 of 17

Trading name:	BIOSCHIFF FORTE REAGENT				
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4

	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			

.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			
	Lover and upper explosion limit:	No information available	No information available			
	Flash point:	No information available	No information available			
	Auto-ignition temperature:	No information available	No information available			
	Decomposition temperature:	No information available	No information available			
	pH:	1.2 – 1.6	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			



Page 8 of 17

Tradin	g name:		<b>BIOSCHIFF FORTE</b>	REAGENT		
Produc	ct code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4
	Relative vapour density:		No information available	No information	available	
	Particle c	haracteristics:	No information available	No information	available	
9.2	Other inf	ormation				
	-					

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.		

11.1 Inform	nation on toxicolo	gical effects			
	toxicity:	gical circets			
Route of exposure:	Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure time	Results
Oral:	OECD Test Guideline 401	rat (sodium metabisulphite) mouse (C.I. Basic Red 9)	LD <sub>50</sub>	-	1.540 mg/kg (sodium metabisulphite) 5.000 mg/kg (C.I. Basic Red 9)
Dermal:	OECD Test Guideline 402	rat	No information available	-	>2.000 mg/kg (sodium metabisulphite)
Inhalation:	OECD Test Guideline 403	rat	No information available	4h	>5.5 mg/l (sodium metabisulphite)
C	*				· · · ·
Specif		xicity – single expos			Note
		pecific effects	Target o		Note
Oral:	No informat	ion available	No information a	vailable -	
Dermal:	No informat	ion available	No information a	vailable -	
Inhalation:	No informat	ion available	No information a	vailable -	



		amended	by Regulati	on (EU)	No. 202	0/878	Page 9 d	of 17
Trading name:			BIOSCHIFF	FORTE	REAGEN	т		
Product code:	BSF-OT-X**	Da	Date of compilation: 00		06 Dec	2023	Versio	n: 4
Aspira	tion hazard:	No in	formation ava	ailable.				
Irritati	on and corrosion							
	Exposure	e time S	Species	Evalua	tion	Method	٨	lote
Skin corrosion/irritat	Skin corrosion/irritation: 4h		t (sodium bisulphite)	-		-	no skin ir	ritation
Serious eye damage/irritation		rabbi	t	-	-	-	causes se damage metabisu	
Sensiti	zation							
Skin sensitizatio	Í	nformation avail	able					
Respiratory sens		formation avail						
Sympt	oms related to the	physical, chemi	cal and toxico	ological ch	aracterist	ics		
Oral exposure:	May cause gastro of concentration		•	•	odominal	pains and	cramps; hi	gher levels
Dermal exposure:	May cause skin ir	ritation.						
Inhalation exposure:	May cause respira when used by ser gastrointestinal in	nsitive persons b	-			•		
Eye exposure:	May cause eye irr	itation.						
Repea	ted dose toxicity (s	ubacute, subchr	onic, chronic)	)				
	Dose	Exposure time	Species	Meth	nod	Evaluati	on	Note
Subacute oral	No information available	No information available	No information available	No infor avail	mation able	No infor available		-
Subacute dermal	No information available	No information available	No information available	No infor avail	mation able	No infor available		-
Subacute inhalation	No information available	No information available	No information available	No infor avail	mation able	No infor available		-

No

information

available

No information

available

Subchronic oral

No

information

available

No

information

available

No information

available

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Page 10 of 17

Trading name:	BIOSCHIFF FORTE REAGENT								
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4				

Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

Specific targe	t organ toxicity – repeated exposu	re (STOT RE):	
	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	-

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			



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

Page 11 of 17

Trading	g name:		B	OSCHIFF FORTE	REAGENT		
Produc	uct code: BSF-OT-X**		Date	of compilation:	06 Dec 2023	Version:	4
	Summary properties		e CMR	No information a	vailable		
11.2	Informatio	on on other hazards:					
11.2.1.	Endocrine	e disrupting properties:					
		n endocrine disrupting pr t human health.	operties				
11.2.2.	Other info	ormations:					

<b>SECTION 12. Ed</b> 12.1 Toxici						
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	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 <sub>50</sub>	48 hours	Daphnia magna (sodium metabisulphite)	No information available	89 mg/l (sodium metabisulphite)	-
Algae/aquatic plants	IC <sub>50</sub>	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 <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-



Page 12 of 17

Trading name:	BIOSCHIFF FORTE REAGENT							
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4			

	Der	gradation hal	f-lives	Ma	ethod	F۱	aluation			Note		
Marine water		formation av			ormation	No information available			-			
Fresh water	water No information available No information available		ter No information available		ation available		ormation ble	No infor available			-	
Air			nation available		ormation ble	No infor available			-			
Soil	No information available		No infe availab	ormation ble	No infor available			-				
Biode	egradatio	on										
% Degradati	-	Time (da	ays)	Me	ethod	E۱	aluation			Note		
No information No information available			ormation	No infor available	mation		No info availabl	rmation				
		tive potential		(loa Kov	v)							
	nol-wate	tive potential er partition co ntration		(log Kov °C	v) Metho	od	Evalua	ition		Note		
Octar	nol-wate	er partition co	pefficient pH	°C		od -		ition	-	Note		
Octar Value	nol-wate Concer	er partition contration	pH	°C	Metho			ition	-	Note		
Octar Value	nol-wate Concer	er partition co ntration	pefficient pH SCF)	•C	Metho					Note		
Octar Value  Bioco Value No informatior	oncentra	er partition contration	pefficient pH SCF)	°C -	Metho - Method ormation			on				
Octar Value	oncentra	tion factor (E Species	pefficient pH SCF)	°C - I No info	Metho - Method ormation		Evaluatic	on				
Value - Bioco Value No informatior available	oncentra	er partition contration tion factor (E Species b info ailable	pefficient pH SCF)	°C - I No info	Metho - Method ormation		Evaluatic	on				
Value Bioco Value No informatior available	nol-wate Concer - oncentra n No av	er partition contration tion factor (E Species b info ailable	CF)	°C - I No info	Metho - Method ormation	No i avai	Evaluatic	on on				



Page 13 of 17

Trading	ng name: BIOSCHIFF FORTE REAGENT											
Product	t code:	BS	F-OT-X**		Date	of co	mpilatio	on:	06 Dec 2	2023	Version:	4
	toxicity c a ( <i>Daphr</i>		EC50		rmation lable	No inforr availa	mation able	No inforn availa	nation ble	No informatio n available		
12.4	Mobilit	y in so	il									
	Known	or pre	dicted distribut	ion ir	n environm	ental	compar	tments	:			
	No info	rmatic	on available									
	Surface	tensic	on:		I					-		
	Valu	Value °C			Concentratio Method		od		Note			
	No informa availab		No informa available	ition	No informati available		No inf availat	ormatio ble	on	-		
	Adsorp		desorption									
Transpo	rt	-	coefficient 's constant	I	log Kow	E١	/aporati	on rate	M	ethod	Note	
Soil-wat	er No av	) ailable	information		informatio lable		o inform ailable	ation	No info availab	ormation le	-	
Water-a	ir No av	) ailable	information		informatio lable		o inform ailable	ation	No info availab	ormation le	-	
Soil-air	No av	) ailable	information		informatio lable		o inform ailable	ation	No info availab	ormation le	-	
	1											
12.5.		-	and vPvB asse			_						
	Substar	nce(s) i	n the mixture c	lo(es)	not meet	the cr	iteria fo	r PBT o	r vPvB			
12.6.	Endocri	ne dis	rupting propert	ies								
12.0.			e/mixture does		ontain con	npone	ents con	sidered	l to have e	endocrine di	isruptina	
	propert	ies aco	cording to REAC Regulation (EU)	CH Ar	ticle 57(f) o	or Cor	nmissio	n Deleg	gated regu			
12.7.	Other a	dverse	effects									
			on available									
	1											
SECTIO	N 13. Dis	posal	consideration	s								



Page 14 of 17

Trading name:	BIOSCHIFF FORTE REAGENT						
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4		

13.1	Waste treatment methods			
13.1.1.	Product/Packaging disposal:			
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.			
13.1.2.	Waste codes/waste designatio			
	Packaging that contains residu	al hazardous substances or is contaminated with hazardous substances		
13.1.3.	Waste treatment – relevant inf	ormation:		
	No information available			
13.1.4.	Sewage disposal – relevant information:			
	Waste must not be disposed o	f into the sewage system.		
	4			
13.1.5.	Other disposal recommendation	ons:		
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.			
13.1.6.	Relevant Community provisions:			
	-			
SECTION	14. Transport information			
	Transporting/shipment by road	(ADR)		
UN numb	per:	Not subject to transport regulations		
UN prope	er shipping name:	-		
Transport	t hazard class(es):	-		
Packing g	jroup:	-		
Environm	entally hazardous:	-		
Special p	recautions for user:	-		
	Transporting/shipment by rail (RID)			
UN numb	per:	Not subject to transport regulations		
UN prope	er shipping name:	-		
Transport	t hazard class(es):	-		
Packing g	group:	-		
Environm	Environmentally hazardous: -			



Page 15 of 17

Trading name:		<b>BIOSCHIFF FORTE R</b>	REAGENT		
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4

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: -				

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



Page 16 of 17

BIOSCHIFF FORTE REAGENT				
F-OT-X**	Date of compilation:	06 Dec 2023	Version:	4
	-OT-X**			

	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 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);	
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
15.2	Chemical safety assessment	t	
	None		

SECTIC	SECTION 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	-			



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

Page 17 of 17

Trading name:		<b>BIOSCHIFF FORTE</b>	<b>BIOSCHIFF FORTE REAGENT</b>		
Product code:	BSF-OT-X**	Date of compilation:	06 Dec 2023	Version:	4

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classification			Classification procedure	
-			-	
16.5.	Relevant H statements (nur		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.	Training advice:		-	
	16.7. 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