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Trading nam	e:		PERIO	DIC ACID, 1 %	SOLUTION		
Product code	e: PK1	-OT-X**	Date of o	compilation:	03 July 2019	Versior	n: 3

SECTI	ON 1 IDENTIFICATION (OF THE SUI	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	PERIODIC	ACID, 1 % SC	DLUTION		
	Chemical name:	-				
	Catalogue number:	PK1-OT-X	(**			
1.2.	Relevant identified use	s of the sul	ostance or mix	xture and uses advised against		
	Uses: For use with special staining kits.					
	Uses advised against:		Only the id	dentified uses are advised.		
	Reason why uses advis	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Production Medical Devices and there is no reason to use it for other pure			
1.3.	Details of the supplier	of the safet	y data sheet			
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska	59, Zagreb		
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biogn	<u>ost.hr</u>		
	National contact:		-			
1.4.	Emergency telephone	number				
	National Protection an	d Rescue D	irectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ECTION 2 HAZARDS INFORMATION					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)					
	Hazard class and category	code:	Hazard statements*:			
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-sta	ntements: see S	ection 16			
2.2.	Classification according to EC Dire	ective Nr. 1272	(2008 CLP)			
	Product identification:	PERIODIC AC	ID, 1 % SOLUTION			
	Identification number:	-				
	Authorization no.: -					
	Hazard pictograms:	-				
	Signal word:	-				



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	-	
2.3.	Other hazards	
	Further information:	-
	Precautionary statements:	-
	Hazard statements:	-

SECTION 3 CC	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS									
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)						
-	-	-	-	-						

SECTIO	ON 4 FIRST AID MEASURES		
4.1.	Description of first aid measu	ıres	
	General notes:		-
	Following inhalation:		Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.
	Following skin contact: Following eye contact:		Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.
			Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.
	Following ingestion:		Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.
	Self-protection of the first aid	der:	Treat symptomatically.
4.2.	Most important symptoms a	nd effe	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.
	Following eye contact:		ct eye contact may cause slight to moderate irritation, lacrimation and ing sensation.



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	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 immediate	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 ₂ Large fire - water spray or alcohol-resistant foam				
	Unsuitable extinguishing media: water jet				
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products: No information available				
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.				
5.4.	Additional information				
	Remove sources of heat and ignition.				
	Do not contaminate the environment with extinguishing media.				

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protect	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personne	el			
	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 containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			



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

SECTIO	ON 7 HANDLING AN STORAGE				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Keep away from sources of heat and ignition. Do not smoke.		
	Measures to prevent aerosol and dust generati	on:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		-		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any income	cluding any incompatibilities			
	Technical measures and storage conditions:	ven	ep in tightly closed and upright set containers in a well itilated storage rooms, and away from sources of heat, light, and other incompatible substances.		
	Packaging materials:	Ma	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: be dir		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:	and che	not place the unused material in the storage room do not use empty containers for storing other micals. Do not store with incompatible materials (see tion 9).		
7.3.	Specific end use(s)				
	Recommendations:	_			
	Industrial sector specific solutions:	-			



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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION								
8.1. Control parameters								
Substance		CAS No		Occupational values/short	exposure limit term values	Biological limit values		
				ppm	mg/m ³			
-	-		-	-	No information available			

Substance - name:								
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of exposure:AcuteAcuteChronicChroniceffect localeffect systemiceffect localeffect systemic								
Oral					-	-		
Inhalation -			-		-	-		
Dermal	-		-	-				
Critical physical paran	neters: s	olubility, fla	mmabilit	y, corrosivity:	-			
				Consumer	_			
Route of	A	Acute		Acute	Chron	nic Chronic		
exposure:	effe	ect local	effe	ct systemic	effect lo	ocal effect systemic		
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
PNEC								
Environmental protec	tion tar	get		PNEC				
Fresh water					No information available			
Freshwater sediments	5				No information available			
Marine water					No information available			
Marine sediments					No information available			
Food chain					No information available			
Microorganisms in sewage treatment					No information available			
Soil (agricultural)					No information available			
Air				No infor	mation availabl	le		
8.2. Exposure	contro	ls						



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8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exponduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	exposure: Organisational measures to		No information available		
			Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	oment			
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.		
8.2.2.2.	Skin protection				
			otective gloves must be according to the EU Directive 2016/425/EEC and andard 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 s (EN 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation available		
8.2.3.	Environmental exposure	controls			
	Substance/mixture 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 pre exposure:	event	See Section 6		

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES							
9.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Color:	colourless	No information available				



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Odor:	no odor	No information available
Odor threshold:	No information available	No information available
рН:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapor pressure:	No information available	No information available
Vapor density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	Soluble in water (20 °C)	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	No information available	No information available
Other information		

SECTIO	SECTION 10 STABILITY AND REACTIVITY				
10.1.	Reactivity:	See subsections 10.3 through 10.5.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	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.			

SECTIO	SECTION 11 TOXICOLOGICAL INFORMATION			
11.1.	Information on toxicological effects			
	Acute toxicity:			



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Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure	time	Results	
Oral exposure:	No information available	_	LD ₅₀	-		_	
Dermal exposure:	No information available	-	LD ₅₀	-		-	
Inhalation exposure:	No information available	-	LC ₅₀	-		-	
Specific tar	get organ toxicity – si	ngle exposure (STOT SE):				
	Specifi	c effects	Target	organ		Note	
Oral exposure:	No information a	available	No information	on available	-		
Dermal exposure:	No information a	available	No information	on available	-		
Inhalation exposure	: No information a	available	No information	on available	-		
Respiratory	/ irritation:	No info	rmation available				
:							
Irritation a	nd corrosion						
	Exposure time	Species	Evaluation	Method		Note	
Skin irritation:	-	rabbit	-				
Eye irritation:	-	rabbit	-				
Sensitization		- - -					
Dermal exposure:	No information avail	abie					
Inhalation exposure:	No information avail	able					
Symptoms	related to the physica	I, chemical and	toxicological chara	ıcteristics			
Oral exposure:	Symptoms related to the physical, chemical and toxicological characteristics Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.						
Dermal exposure:		Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure may cause drying, cracking and tingling sensation of skin.					
Inhalation exposure		Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.					
Eye exposure:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.						



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!		acute, subchro	· ·				
	Dose	Exposure time	Species		Method	Evaluation	n Note
Subacute oral	No information available	No information available	No informati available		No information available	No information available	on -
Subacute dermal	No information available	No information available	No informati available		No information available	No information available	on -
Subacute inhalation	No information available	No information available	No informati available	ion	No information available	No information available	on -
Subchronic oral	No information available	No information available	No informati available		No information available	No information available	on -
Subchronic dermal	No information available	No information available	No informati available	ion	No information available	No information available	on -
Subchronic inhalation	No information available	No information available	No informati available	ion	No information available	No information available	on -
Chronic oral	No information available	No information available	No informati available		No information available	No information available	on -
Chronic dermal	No information available	No information available	No informati available		No information available	No information available	on -
Chronic inhalation	No information available	No information available	No informati available		No information available	No informatio available	on -
Specific	target organ toxici	•	xposure (S	IOT F			NI.
Subacute oral		Specific effects No information available			Target organ No information available		Note
		ation available			nformation avai		_
		ation available			nformation avai		_
		ation available			nformation avai		-
Subchronic derm	ation available			nformation avai		-	
Subchronic inhal	ation No informa	ation available		No i	nformation avai	lable	-
Chronic oral	No informa				nformation avai	lable	_



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				. a.g. = 0 0 . = 0
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Chronic dermal No informat		tion available		No information available	-			
Chronic inhalation No informat			tion available	tion available No information available		-		
	CMR effects	(carcinogenicity	, mutagenicit	ty, reproc	ductive toxicity)			
	Carcinogenic	city:	Current :	studies o	n test animals did not indicate ca	arcinogenic effects.		
	Mutagenicity	ı in-vitro:	Current	Current in vitro tests did not indicate mutagenic effects.				
	Genotoxicity	•	No infor	mation a	vailable			
	Mutagenicity in-vivo:		Current	Current in vivo tests did not indicate mutagenic effects.				
	Germ cell mu	No infor	No information available No toxicity on reproductive organs was determined in reproductive organs.					
	Reproductive							
	Summary of	evaluation of th	ne CMR prope	erties:	-			
11.2.	Practical exp	eriences:						
	Remarks rele	vant for classifi	cation:	No info	rmation available			
	Other remarks:			No information available				
11.3.	General note	es:						
	-							

SECTION	12 ECOLO	GICAL IN	IFORMATION:
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12.1. Toxicity

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



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Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

Persistence and degradability 12.2.

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	-

D: 1		
RIAN	arran	lation
DIOUG	guac	iauon

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

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water (log Kow):

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

Bioconcentration factor (BCF)

Value	Species	Species Method		Note
No information available	No inform available	No information available	No information available	No information available



Tradin						DER	IOD	IC ACID	1 0/ 6/			rag	JE 12	2 01 10
Tradin			DV1 /	OT V++				IC ACID					······································	
Produ	ct coc	ae:	PK1-0	OT-X**		Date	OT C	ompilati	on: 0	3 July 2	2019	ve	rsior	n: 3
		i												
	Chr	onic ec	otoxici	ty										
	Va	lue		Dose		Exposure time	Sį	pecies	Meth	nod	E	valuation		Note
Chroni	c toxic	city on	fish	LC ₅₀	iı	No nformation available		rmation lable	No inform availab		No information available		1	-
Chroni		•		EC ₅₀	iı	No nformation available		rmation lable	No inform availab	1	No i avail	nformatio able	1	_
				:		- :			i					
12.4.	Mol	bility in	soil											
	Known or predicted distribution in environmental compartments:													
	No	informa	ation av	vailable										
	Surf	face ter	nsion:					.						
	,	Value		°C		Concentrat	tion		Metho	od		Note		e
		rmatio ilable		o formation ailable		No information No information available			n		-			
	Λdc	orption	. / desc	protion										
Transp		A,	/D coef			log Kow		Evaporati	on rate	N	/lethc	od		Note
Soil-wa	ater	No availa		nformation		lo informatio vailable		lo inform vailable	nation	No inf availa	-	ation -		
Water-	-air No information No information available No information available available		-	ation -										
Soil-air No informa		nformation		lo informatio vailable		No inform vailable	nation	No inf availal		ation -				
12.5.				d vPvB asses	ssn	nent								
	No	informa	ation av	vailable										
12.6.		er adve												
	No	informa	ation av	vailable										



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SECTION	N 13 DISPOSAL CONSIDER	ATIONS		
13.1.	Waste treatment method	s		
13.1.1.	Product/Packaging dispo	sal:		
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.			
13.1.2.	Waste codes/waste designations according to Law:			
	No information available			
13.1.3.	Waste treatment – releva	nt information:		
	No information available			
13.1.4.	Sewage disposal – releva	nt information:		
	Waste must not be disposed of into the sewage system.			
13.1.5.	Other disposal recomme	ndations:		
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge. Do not dispose of in places where		
13.1.6.	Relevant Community pro	visions:		
	-			
SECTION	N 14 TRANSPORT INFORM	MATION		
	Transporting/shipment by	road (ADR)		
UN num	ber:	Not subject to transport regulations.		
UN prop	er shipping name:	-		
Transport hazard class(es):		-		
Packing group:		-		
Environmentally hazardous:		-		
Special p	precautions for user:	-		
	Transporting/shipment by	rail (RID)		
UN num	ber:	Not subject to transport regulations.		
UN prop	er shipping name:	-		
Transpoi	rt hazard class(es):	-		



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Packing	ງ group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Inland waterway transport (Al	DN)
UN nun	nber:	Not subject to transport regulations.
UN pro	per shipping name:	-
Transpo	ort hazard class(es):	-
Packing	ງ group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by sea	a (IMDG)
UN nun	nber:	Not subject to transport regulations.
UN pro	per shipping name:	-
Transpo	ort hazard class(es):	-
Packing	յ group։	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by air	(ICAO-TI/IATA-DGR)
UN nun	nber:	Not subject to transport regulations.
UN pro	per shipping name:	-
Transpo	ort hazard class(es):	-
Packing	ງ group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
Further	information: -	

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



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	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 1999 guideline)	9/13/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 assessmen	t
	None	

SECTIO	ON 16 Other information			
16.1.	Indication of changes:	-		
		PBT	Stable, bioaccumulative and toxic	
		vPvB	Strongly stable and strongly bioaccumulative.	
16.2.	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%	
		LC ₅₀	Lethal concentration, 50%	
		STOT-SE	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the	e classification for mixture according to Regulation (EC)	
Classifi	cation	Classification procedure		
_	-	-		
16.5.	Relevant H statements (number and full text)			
	H: -	•		
16.6.	Training advice:			



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Trading name:	PERIODIC ACID, 1 % SOLUTION			
Product code:	PK1-OT-X**	Date of compilation:	03 July 2019	Version: 3

		** "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:	Α	N	N	E	X	
--------	---	---	---	---	---	--

Exposure scenario resulting to Chemical safety assessment



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Trading name:	SILVER NITRATE, SOLUTION				
Product code:	SN-OT-X**	Date of compilation:	09 July 2019	Version:	4

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SILVER NITE	SILVER NITRATE, SOLUTION		
	Chemical name:	-			
	Catalogue number:	SN-OT-X**			
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with Grocott and P.A.S.M. / Jones staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advis			duct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes.	
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@b	oiognost.hr	
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d 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 Reg	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Skin Irr. 2		H315		
	Eye Irr. 2		H319		
	Aquatic Chronic 2 H411				
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	SILVER NITRATE	E, SOLUTION		
	Identification number:	-			
	Authorization number:	-			



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Trading name:	SILVER NITRATE, SOLUTION				
Product code:	SN-OT-X**	Date of compilation:	09 July 2019	Version:	4

	Hazard pictograms:	GHS07 GHS09
	Signal word:	Warning
	Hazard statements:	H315 Causes skin irritation.H319 Causes serious eye irritation.H411 Toxic to aquatic life with long lasting effects.
	Precautionary statements:	P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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)		
7761-88-8/ 231-853-9/ 047-001-00-2	-	5 -10%	silver nitrate	Ox. Sol. 2; H272 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410		

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



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Trading name:	SILVER NITRATE, SOLUTION				
Product code:	SN-OT-X**	Date of compilation:	09 July 2019	Version:	4

	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 eff	fects, 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:	Danger of gastric perforattion.
4.3	Indication of any immediate media	cal attention and special treatment needed

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Water spray, foam, dry powder, CO ₂ or alcohol resistant foam.			
	Unsuitable extinguishing media:	Water with full jet.			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Nitrogen oxides (NOx). During heating or in case of fire poisonous gases are produced.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Do not contaminate the environment	ent with extinguishing media.			

SECTIO	N 6. Accidental release measure	es
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).



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Trading name:		SILVER NITRATE, S	OLUTION		
Product code:	SN-OT-X**	Date of compilation:	09 July 2019	Version:	4

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

SECTIO	N 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.
	Measures to prevent aerosol and dust generation	:	Secure proper ventilation.
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.
	Other measures:		-
7.1.2.	Advice on general occupational hygiene:		
	Do not eat, drink or smoke in the workspace. Tho	roughly was	h hands after work and before eating.
7.2	Conditions for safe storage, including any incomp	atibilities	
	Technical measures and storage conditions:		htly closed and upright set containers at res ranging from +2 to +8 °C.



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Trading name:		SILVER NITRATE, S	OLUTION		
Product code:	SN-OT-X**	Date of compilation:	09 July 2019	Version:	4

	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. Expos	ure contr	ols/perso	nal prot	ection				
8.1 Control pa	arameters							
Substance	<u>,</u>	CA	S No			exposure limit term values	Biolo	ogical limit values
				рр	m	mg/m³		
Silver (as Ag)			-	-		0.01		-
Substance name:	-							
EC No:	-	CAS No) :					
DNEL								
				Indu	strial			
Route of	Acı	ıte	Ad	Acute Chronic Chronic		Chronic		
exposure:	effect	local	effect :	systemic		effect local		effect systemic
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
Critical physical pa	rameters: s	olubility,	flammab	ility, corro	sivity:	-		
				Cons	umer			
Route of	Acı	ute	Ad	cute		Chronic		Chronic
exposure:	effect	local	effect	systemic		effect local		effect systemic
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	



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Trading name:		SILVER NITRATE, SO	OLUTION		
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PNEC			
Environm	ental protection target		PNEC
Fresh wat	er		no information available
Freshwate	Freshwater sediments		no information available
Marine water			no information available
Marine se	diments		no information available
Food chai	in		no information available
Microorga	anisms in sewage treatment		no information available
Soil (agric	cultural)		no information available
Air			no information available
8.2	Exposure controls		
8.2.1.	Appropriate engineering control	nls	
0.2.1.	Substance/mixture related mea prevent exposure during identification	sures to	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 pre exposure:	event	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent	exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.
8.2.2.	Personal protection equipment		
8.2.2.1.	Eye and face protection:	levels	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.
8.2.2.2.	Skin protection		
	Hand protection:	Protec	tive nitrile gloves, >0.11 mm thick (EN 374).
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) ang sleeves (EN 340) and shoes that cover the entire foot.
8.2.2.3.	Respiratory protection:		quired under normal conditions of use. Use suitable tory protective device when high concentrations are t.
8.2.2.4.	Thermal hazards:	No info	ormation available
8.2.3.	Environmental exposure contro	ls	
	Substance/mixture related measures to prevent exposure:	See Se	ction 6



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Trading name:		SILVER NITRATE, S	OLUTION		
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Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

Information on basic physical and	chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour:	No information available	No information available
Odor threshold:	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapour pressure:	No information available	No information available
Vapour density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	No information available	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	No information available	No information available
Other information		



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Trading name:		SILVER NITRATE, S	OLUTION	<u> </u>	
Product code:	SN-OT-X**	Date of compilation:	09 July 2019	Version:	4

SECTIO	ON 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:	No information available
10.5	Incompatible materials:	No information available
10.6	Hazardous decomposition products:	No information available

SECTION 11.							
	mation on toxicole toxicity:	logical effects					
Route of exposure:	Method	Species	Dos	se LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure t	ime	Results
Oral:	-	No information available		-	No information	on	_
Dermal:	-	No information available		-	No information available		-
Inhalation:	-	No information available		-	No information	on	-
Speci	fic target organ t	oxicity – single exp	osure (ST	OT SE):			
		Specific effects		Target	organ		Note
Oral:	No inform	nation available		No information	available	-	
Dermal:	No inform	nation available	No information available			-	
Inhalation:	No inform	nation available	No information available			-	
Aspir	ation hazard:	N	No inform	nation available.			
Irritat	ion and corrosio	n					
	Ex	posure time	Specie	es Evaluat	ion Method	k	Note
Skin corrosion/irrita	ation:	=		-	-	_	
Serious eye damage/irritat	ion -	-		-	-	-	_
Sensi	tization						
Skin sensitizat							



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Trading name:		SILVER NITRATE, S	OLUTION		
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Respiratory sensi	tizatic	on: -					
Symptor	ns rel	lated to the ph	nysical, chemica	al and toxicolog	ical characteristi	cs	
Oral exposure:		No informati	on available.				
Dermal exposure	•	No informati	on available.				
Inhalation exposu	ıre:	No informati	on available.				
Eye exposure:		No informati	on available.				
Repeate	d dos	se toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No avai	information lable	No information available	No information available	No information available	No information available	-
Subacute dermal		information lable	No information available	No information available	No information available	No information available	-
Subacute inhalation	No avai	information lable	No information available	No information available	No information available	No information available	-
Subchronic oral		information lable	No information available	No information available	No information available	No information available	-
Subchronic dermal		information lable	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No avai	information lable	No information available	No information available	No information available	No information available	-
Chronic oral		information lable	No information available	No information available	No information available	No information available	-
Chronic dermal	-	information lable	No information available	No information available	No information available	No information available	-
Chronic inhalation		information lable	No information available	No information available	No information available	No information available	-
Specific	targe	t organ toxicit	· ·	xposure (STOT F	RE):		
			Specific effec	ts	Target o	rgan	Note



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Trading name:		SILVER NITRATE, S	OLUTION		
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Subac	ute dermal	No information available	No informa	ation available	-		
Subac	ute inhalation	No information available	No informa	ation available	-		
Subch	ronic oral	No information available	No informa	-			
Subch	ronic dermal	No information available	No informa	ation available	-		
Subch	ronic inhalation	No information available	No informa	ation available	-		
Chron	ic oral	No information available	No informa	ation available	-		
Chroni	ic dermal	No information available	No informa	ation available	-		
Chron	ic inhalation	No information available	No informa	ation available	-		
	CMR effects (c	arcinogenicity; mutagenicity; re	productive toxicity)				
	Carcinogenicit		No information availab	le.			
	Mutagenicity i	,	No information availab	le.			
	Genotoxicity:		No information availab	le.			
	Mutagenicity i	n vivo:	No information available. No information available. No information available. No information available.				
	Germ cell muta	agenicity:					
	Reproductive t	oxicity:					
	Summary of properties:	evaluation of the CMR					
11.2	Practical exper	iences:					
	Classification o	observations:	-				
	Other observa	tions:					
	General notes:						

SECTION 12. Ecologic	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Leuciscus idus (Golden orfe)	-	-	0.011 mg/l (silver nitrate)
Crustacea:	EC ₅₀	48 hours	Daphnia magna (Water flea)	-	-	0.0082 mg/l (silver nitrate)



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Trading name:		SILVER NITRATE, S	OLUTION		
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Algae/aquatic plants		lants	IC ₅₀	4 days	Pseudokirchner iella subcapitata (green algae)	-	-		0.19 mg/l (silver nitrate)
Other or	ganism	S	-	-	-	-	-		-
Chronic toxicity	(long-te	erm)	Dose	Exposur time	e Species	Method	Evaluat	tion	Note
Fish			LC ₅₀	96 hours	No information available	No information available	No informa availabl		-
Crustace	Crustacea: EC ₅₀			48 hours	No information available	No information available	No informa availabl		-
Algae/aquatic plants		IC ₅₀	72 hours	No information available	No information available	No informa availabl		-	
Other or	ther organisms			-	-	-	-		-
12.2	Persiste	ence ai	nd degradab	ility					
	Abiotic	degra	dation			;			
	Degradation half-lives				Method	Evaluatio	on		Note
Marine v	water	No in	formation available		No information available	No information available		-	
Fresh wa	ater	No ir	nformation available		No information available	No information available		_	
Air		No ir	nformation a	vailable	No information available	No information	on -		
Soil		No ir	oformation a	vailable	No information available	No information	on .	_	
-	Biodeg	radatio	on						
% Deg	gradatio		Time (d	lays)	Method	Evaluatio	on		Note
			ormation	No information available	No information		No inf availal	ormation ole	
12.3	Bioaccı	umulat	ive potential						
	Octano	l-wate	r partition co	pefficient (l	og Kow)				
Value	•	Conce	ntration	рН	°C Method	Evalu	uation		Note



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Tradir	ng name	:			SII	LVER	NITRA	TE, SO	LUTIO	N			
Produ	ıct code	: SI	N-OT-X**		Date	of co	mpilati	on:	09 July	2019	Version:		4
-	_		-					-			-		
	Biocoi	ncentrat	ion factor (BCF)									
	Value		Species	<u> </u>	M	lethoc	<u> </u>	Ev	/aluatic	n		Note	
No inf availat	ormation ole		o inforn ailable	nation	No infor		on	No info	ormatic	n	-		
	Chron	ic ecoto	xicity										
	Value		Dose		Exposure time		ecies	Method		Evaluation		Note	
Chron	Chronic toxicity on fish		LC ₅₀	No infor	information		nformation in				No information - available		
	ic toxicity cea (<i>Dap</i>		EC ₅₀	No infor avail	mation	No inforr availa	mation ible	No inform availab		No informa availab		-	
12.4	Mobil	ity in soi	il										
· ·			dicted distribut	ion in e	environme	ental c	ompart	ments:					
	No inf	ormatio	n available										
	Surfac	e tensio	n:										
	Va	lue	°C	С	oncentrat	ion		Metho	od		Note		
	No inform availal		No information available		informati ailable	ion	No inf	ormation ole	n	-			
	Adsor	ption / d	desorption										
Transp		A/D	coefficient 's constant	lo	og Kow	Εν	/aporati	on rate	N	/lethod		Note	
Soil-w	ator :	No Ivailable	information	No ir availa	nformation able		o inform ailable	nation	ation No information		on	-	
Water	-air	No Ivailable	information	No ir	nformatio able		o inform ailable	nation	No in availa	formation ble	on	-	



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Trading	name:		SILVER NITRATE, SOLUTION										
Produc	t code:	SN-OT-X**	Date of	compilation:	09 July 2019	Version:	4						
					-								
Soil-air	No avail	information able	No information available	No information available	No information available	-							
12.5		PBT and vPvB asses	ssment										
	No inform	nation available											
12.6	0.1												
12.6		erse effects											
	No inform	nation available											
SECTIO	N 13. Disp	osal consideration	s										
13.1	Waste ti	reatment methods											
	\$												
13.1.1.	Product	Product/Packaging disposal:											
		-	egal person autho	rized by the Minis	try of Environmental	and Nature							
	Protection	on.											
13.1.2.	Waste c	odes/waste designa	tions according to	o Law:									
20.2.2.					ntaminated with haz	ardous substai	nces						
	<u> </u>	<u> </u>											
13.1.3.	Waste ti	reatment – relevant	information:										
	No infor	rmation available											
13.1.4.	Sewage	Sewage disposal – relevant information:											
	Waste n	nust not be dispose	d of into the sewa	ge system.									
13.1.5.	Other di	isposal recommend	ations:										
	authoriz	-	n charge. Do not o	dispose of the pac	n. Submit the remair kaging into the sewa arge								
13.1.6.		t Community provis			901								
	_	71											
	1												
SECTIO	N 14 TRAN	SPORT INFORMA	TION										
	Transporti	ing/shipment by roa	ad (ADR)										
UN num	ber:		3082										
UN prop	er shippin	g name:	Environment	ally hazardous sub	stance, liquid, n.o.s.	(silver nitrate)							
Transpo	rt hazard c	lass(es):	9										



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Trading name:	SILVER NITRATE, SOLUTION				
Product code:	SN-OT-X**	Date of compilation:	09 July 2019	Version:	4

Packing group:	Ш
Environmentally hazardous:	yes
Special precautions for user:	
Transporting/shipment by rail (R	ID)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver nitrate)
Transport hazard class(es):	9
Packing group:	ш
Environmentally hazardous:	yes
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver nitrate)
Transport hazard class(es):	9
Packing group:	Ш
Environmentally hazardous:	yes
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver nitrate)
Transport hazard class(es):	9
Packing group:	Ш
Environmentally hazardous:	yes
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:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (silver nitrate)
Transport hazard class(es):	9
Packing group:	Ш
Environmentally hazardous:	yes
Special precautions for user:	-



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ſ	Trading name:		SILVER NITRATE, SOLUTION			
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5.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or rest	rictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives				
	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				
5.2	Chemical safety assessme	ent				
	None					

SECTION	SECTION 16. Other information				
16.1	Indication of changes:	-			
		PBT	Stable, bioaccumulative and toxic		
		vPvB	Strongly stable and strongly bioaccumulative.		
16.2	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%		
		LC ₅₀	Lethal concentration, 50%		
		TCOJ	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			



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Trading name:		SILVER NITRATE, SOLUTION			
Product code:	SN-OT-X**	Date of compilation:	09 July 2019	Version:	4

16.4.		sification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classification		1	Classification procedure		
-			-		
16.5.	Rele	evant H statements (num	ber and full text)		
		H272	May intensify fire; oxidiser.		
	H314 H: H315 H319		Causes severe skin burns and eye damage.		
			Causes skin irritation.		
			Causes serious eye irritation.		
		H400	Very toxic to aquatic life.		
		H410	Very toxic to aquatic life with long lasting effects.		
		H411	Toxic to aquatic life with long lasting effects		
16.6.	Trai	ning advice:	-		
			** "X" in the product code marks different volumes (different packagings of the product)		
16.7. Further information:		ther 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 sce	enario resulting to chemical safety assessment
-	



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Trading name:				
Product code:	MET-OT-X**	Date of compilation:	03 July 2019	Version: 3

SECTIO	ON 1 IDENTIFICATION C	OF THE SUBS	STANCE/MIXTU	JRE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	METHENAI	MINE, SOLUTIOI	N	
	Chemical name:	-	-		
	Catalogue number:	MET-OT-X	**		
1.2.	Relevant identified use	s of the subs	stance or mixtur	e and uses advised against	
	Uses:		For use with 0	Grocott and P.A.S.M./Jones kits.	
	Uses advised against:		Only the iden	tified uses are advised.	
	Reason why uses advis	The product is intended for use only as an <i>in vitro</i> diagnostic medic device, registered at the Agency for Medicinal Products and Medica Devices and there is no reason to use it for other purposes.			
1.3.	Details of the supplier	of the safety	data sheet		
	Supplier:	В	ioGnost Ltd.		
	Address:	N	1edjugorska 59,	Zagreb	
	Telephone number:	+	385 1 2409997		
	Fax no.:	+	385 1 2404039		
	e-mail of competent pe	erson: <u>m</u>	<u>nsds@biognost.</u>	<u>hr</u>	
	National contact:	_			
1.4.	Emergency telephone	number			
	National Protection and	otection and Rescue Directorate:		112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 2 HAZARDS INFORMATION	2 HAZARDS INFORMATION					
2.1.	Classification of the substance or mixture						
2.1.1.	Classification (REGULATION (EC) N	lo. 1272/2008 (Cl	LP)				
	Hazard class and categor	y code:	Hazard statements*:				
	Skin. Sens. 1B H317						
2.1.2.	Additional information						
	-						
*For ful	ll text of Hazard- and EU Hazard-sta	tements: see Sect	tion 16				
2.2.	Classification according to EC Dire	ective Nr. 1272/20	008 CLP)				
	Product identification: METHENAMINE, SOLUTION						
	Identification number: -						
	Authorization no.:						



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Trading name:		METHENAMINE, SOLUTION		
Product code:	MET-OT-X**	Date of compilation:	03 July 2019	Version: 3

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statements:	H317 May cause an allergic skin reaction.
	Precautionary statements:	P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Further information:	-
2.3.	Other hazards	
	-	

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)
100-97-0/ 202-905-8/ 612-101-00-2	-	< 25 %	methenamine	Flam. Sol. 2; H228 Skin. Sens. 1B; H317

SECTIO	SECTION 4 FIRST AID MEASURES			
4.1.	Description of first aid measures			
	General notes:	-		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.		
	Following skin contact:	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 aider:	Treat symptomatically.		
4.2.	Most important symptoms and effects, both acute and delayed			
	Following inhalation: No	information available		



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Trac	ding name:	METHENAMINE, SOLUTION			
Prod	duct code:	MET-OT-X**	Date of compilation:	03 July 2019	Version: 3

	Following skin contact:	No information available
	Following eye contact:	No information available
	Following ingestion:	No information available
4.3.	Indication of any immedia	te medical attention and special treatment needed
	-	

SECTIO	SECTION 5 FIREFIGHTING MEASURES		
5.1.	Extinguishing media		
	Suitable extinguishing media: W	√ater spray, dry powder, CO₂ or alcohol-resistant foam	
	Unsuitable extinguishing media: N	o information available	
5.2.	Special hazards arising from the substance or mixture		
	Hazardous combustion products: N	o information available	
5.3.	Advice for firefighters		
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.		
5.4.	Additional information		
	Remove sources of heat and ignition.		
	Do not contaminate the environment with extinguishing media.		

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and 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 containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
6.3.2.	Cleaning up:	Sawdust, sand, mineral adsorbents.			
6.3.3.	Other information:	-			
6.4.	Reference to other sections				



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See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION							
8.1.	8.1. Control parameters						
	Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values		
			ppm	mg/m³			



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				•					1	•	1
-			-			-		-	No info	ormation avai	lable
· 											
Substance	_										
name:			T								
EC No:	-		CAS No:								
DNEL											
		1		1		ndustrial					
Route of exposure:			Acute ect local		Acı effect sy			Chror effect l			ronic
Oral		ene	ect iocai	_	enect sy	/sternic		enecti	OCal		systemic
Inhalation		1-		_			_			-	
Dermal		-		_							
Critical physica	al para	motors: c	olubility fla	mmah	ility cor	rocivity:	_				
Critical physica	ai para	meters, s	olubility, na	ПППар		onsumer		<u> </u>			
Doute of		<u> </u>	Acute		Acı			Chron	nic	Ch	ronic
Route of exposure:			ect local		effect sy			Chronic effect local		Chronic effect systemic	
Oral		-		_	-11000	Sterric	_	Circui	o cai	-	system e
Inhalation		_		_			_			_	
Dermal		-		_			_				
PNEC				l							
Environmenta	ıl prote	ction tar	get			PNEC					
Fresh water	•	•				No information available					
Freshwater sed	diment	:S				No information available					
Marine water						No information available					
Marine sedime	ents					No information available					
Food chain						No information available					
Microorganisn	ms in se	ewage tr	eatment			No information available					
Soil (agricultui						No information available					
Air						No information available					
						L					
8.2. E	xposur	e contro	ls								
8.2.1. E	nginee	ring mea	isures								
m	neasure		re related vent exposu uses:	ro :		product in w ent. Do not e					
	Structur		ires to preve	ent	No info	rmation availa	able	9			



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	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	oment					
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.				
8.2.2.2.	Skin protection						
			tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374.				
	Hand protection:		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 s (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	for org	tive full face mask (EN 136) or half mask (EN 140) equipped with a filter ganic vapors, type "A" (boiling point >65°C) acording to EN 14387) when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No inf	ormation available				
8.2.3.	Environmental exposure controls						
	Substance/mixture relate measures to prevent exp		See Section 6				
	Structural measures to prescribe exposure:	event	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				

SECT	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES					
9.1.	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Color:	colourless to light yellow	No information available			
	Odor:	characteristic	No information available			
	Odor threshold:	No information available	No information available			
	pH:	No information available	No information available			
	Melting point / freezing point;	No information available	No information available			
	Initial boiling point and boiling range:	No information available	No information available			



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	-						
9.2.	Other information						
	Oxidising properties:	No information available	No information available				
	Explosive properties:	No information available	No information available				
	Viscosity:	No information available	No information available				
	Decomposition temperature:	No information available	No information available				
	Auto-ignition temperature:	No information available	No information available				
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available				
	Solubility(ies):	Soluble in water (20 °C)	No information available				
	Bulk density:	No information available	No information available				
	Relative density:	No information available	No information available				
	Vapor density:	No information available	No information available				
	Vapor pressure:	No information available	No information available				
	Upper/lower flammability or explosive limits:	No information available	No information available				
	Flammability (solid, gas):	No information available	No information available				
	Evaporation rate:	No information available	No information available				
	Flash point:	No information available	No information available				

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

SECTION 11 TOXICOLOGICAL INFORMATION								
11.1. Informat	Information on toxicological effects							
Acute to	Acute toxicity:							
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results			
Oral exposure:	No information available	No information available	-	-	-			



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	:	i .		ı		,	i		
Dermal exposure:	No information available	No informa	ation	-	-		-		
Inhalation exposure:	No information available	No informavailable	ation	-	-		-		
		•							
Specific	target organ toxicity	– single expos	sure (STOT SE):						
i .	S	Specific effects		Target o	organ		Note		
Oral exposure:	No informat	ion available	No ii	nformatio	n available	-			
Dermal exposure:	No informat	ion available	No ii	nformatio	n available	-			
Inhalation exposu	ıre: No informat	ion available	No ii	nformatio	n available	-			
	,		;						
Aspiratio	on hazard:	No	information avail	able					
		-							
Irritation	and corrosion								
f.	Exposure ti	me S _l	oecies Eval	uation	Method		Note		
Skin irritation:	-	-	-		-	-			
Eye irritation:	-	-	-		-	-			
	:	!	:	:	:				
Sensitiza	tion								
Dermal exposure:	No inform	ation available							
Inhalation exposu	ıre: No inform	ation available							
	:								
Symptor	ns related to the phy	ysical, chemical	and toxicological	l character	istics				
Oral exposure:	No information	n available							
Dermal exposure:	No informatio	on available							
Inhalation exposu	re: No informatio	tion available							
Eye exposure:	No information	on available							
Repeate	d dose toxicity (suba	cute, subchror	nic, chronic)						
	Dose	Exposure time	Species	Method	Eva	luation	Note		
Subacute oral	No information available	intormation	No information available	No informat available		ormation ilable	-		
Subacute dermal	No information available	No information available	No information available	No informat available		ormation ilable	-		



Mutagenicity in-vivo:

Germ cell mutagenicity:

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Subacute inhalation	No ir availat	nformation ple	No information available	No informa available	tion	No information available	No informatio available	n -
Subchronic oral	No ir availat	nformation ble	No information available	No informa available	tion	No information available	No informatio available	n -
Subchronic dermal	No ir availat	nformation ble	No information available	No informa available	tion	No information available	No informatio available	n -
Subchronic inhalation	No information		No information available	No informa available	tion	No information available	No informatio available	n -
Chronic oral	No information available		No information available	No informa available	tion	No information available	No informatio available	n -
Chronic dermal	No information available		No information available	No information available		No information available	No informatio available	n -
Chronic inhalation	No information i		No information available	No informa available	tion	No information available	No informatio available	n -
Specific	target c		y – repeated ex	•	ΓRE):			
C			Specific effects	5	NI - :-	Target orga nformation avai		Note
Subacute oral Subacute derma	ı		tion available			nformation avai		_
Subacute inhalat			tion available			nformation avai		_
Subchronic oral			tion available			nformation avai	_	
Subchronic derm	nal		tion available			nformation avai	_	
Subchronic inhalation No information			tion available			No information available		-
Chronic oral No information			tion available		No information available		lable	-
Chronic dermal No information		tion available	n available No		No information available		-	
Chronic inhalation No information		tion available		No ii	nformation avai	lable	-	
CMR ef	fects (ca	rcinogenicity	y, mutagenicity	/ reproductive	e toxi	city)		
	genicity:			nation availab		City)		
				No information available				
	Mutagenicity <i>in-vitro</i> : Genotoxicity:			No information available				

No information available

No information available



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Trading name:		METHENAMINE, S	SOLUTION	
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	Reproductive toxicity:	No info	ormation available
	Summary of evaluation of th	ne CMR pro	perties: -
11.2.	Practical experiences:		
	Remarks relevant for classifi	cation:	No information available
	Other remarks:		No information available
11.3.	General notes:		
	-		

SECTION 12 ECOLOGICAL INFORMATION:

121	Tovici	4

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

12.2. Persistence and degradability

Abiotic degradation



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Trading name:		METHENAMINE, S	SOLUTION	
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	Degr	radation ha	lf-lives		Method			Evaluatio	on	Note
Marine water	No info	No information available		No information available		2	No information available		railable	-
Fresh water	No info	ormation av	ailable	No info	ormation available	9	No inform	nation av	ailable	-
Air	No info	ormation av	ailable	No info	ormation available	9	No inform	nation av	ailable	-
Soil	No info	ormation av	ailable	No info	ormation available	2	No inform	nation av	ailable	-
Pind	egradatio	n e								
1	_		c)		Method		Evaluatio	ın.		lote
% Degradation No information available	on No	Time (day infor ilable	mation		mation available		o information		No informa available	
		ive potentia		ater (log K	(ow):					
Value	Concentration p		рΗ	°C	Method		Evaluation			Note
-	No intavailable	formation	-	-	No information available		No inform available	nation	-	
	oncentrat	ion factor (Makkad		F l			
Value		Speci			Method	NI.	Evaluation			Note
No information available available			formatio	availa	formation ble		o information information of the second seco	on 	No inform available	nation
Chro	nic ecoto	oxicity								
Val	ue	Dos	se E	xposure time	Species		Method	Eva	luation	Note
Chronic toxicity on fish LC ₅₀		LC ₅₀	1	ormation ailable	No information available	1	o formation railable	No info	ormation lle	-
Chronic toxicity on crustacea (<i>Daphnia</i>) EC ₅₀		1	ormation ailable	No information available	1	o formation railable	No info	ormation le	-	



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12.4.	Мо	bility in so	il									
	Kno	own or pre	dicted distributi	on in environmental	compartments:							
	No	informatio	n available									
	Surface tension:											
		Value	°C	Concentration	Met	thod		Note				
	1	ormation iilable	No information available	No information available	No informat available	tion	-					
	Ads		desorption									
Transp	ort		coefficient /'s constant	log Kow	Evaporation rat	e Meth	iod	Note				
Soil-wa	ater	No available	information	No information available	No information available	No inform available	nation	-				
Water-	air	No available	information	No information available	No information available	No inform available	nation	-				
Soil-air No information available		information	No information available	No information available			_					
12.5.	Res	sults of PB1	and vPvB asses	ssment								
	No	informatio	on available									
12.6.	Otł	ner adverse	e effects									
	No	informatio	n available									
SECTIO	ON 13	B DISPOSA	L CONSIDERA	TIONS								
13.1.	٧	Vaste treat	ment methods									
13.1.1.	P	roduct/Pac	ckaging disposa	l:								
		ubmit for o	disposal to the l	egal person authorize	ed by the Ministr	y of Environm	ental and	d Nature				
13.1.2.	٧	Vaste code	s/waste designa	itions according to La	aw:							
			tion available									



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13.1.3.	Waste treatment – relevar	nt information:				
	No information available					
13.1.4.	Sewage disposal – relevar	nt information:				
	Waste must not be dispos	sed of into the sewage system.				
13.1.5.	Other disposal recommer	ndations:				
	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. Do not dispose of in places where ignition may occur.					
13.1.6.	Relevant Community prov	visions:				
	-					
SECTION	N 14 TRANSPORT INFORM	ATION				
	Transporting/shipment by r	oad (ADR)				
UN num	ber:	Not subject to transport regulations.				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing (group:	-				
Environn	nentally hazardous:	-				
Special p	recautions for user:	-				
	Transporting/shipment by r	ail (RID)				
UN num	ber:	Not subject to transport regulations.				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing (group:	-				
Environn	nentally hazardous:	-				
Special p	recautions for user:	-				
	Inland waterway transport (ADN)				
UN number:		Not subject to transport regulations.				
UN proper shipping name:		-				
Transport hazard class(es):		-				
	aroun.	-				
Packing	g.oup.					
Packing (nentally hazardous:	-				



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Trading name:	METHENAMINE, SOLUTION				
Product code:	MET-OT-X**	Date of compilation:	03 July 2019	Version:	3

UN number:	Not subject to transport regulations.	
UN proper shipping name:	-	
Transport hazard class(es):	-	
Packing group:	-	
Environmentally hazardous:	-	
Special precautions for user:	-	
Transporting/shipme	ent by air (ICAO-TI/IATA-DGR)	
UN number:	Not subject to transport regulations.	
UN proper shipping name:	-	
Transport hazard class(es):	-	
Packing group:	-	
Environmentally hazardous:	-	
Special precautions for user:	-	
Further information: The product is not subject to classification.		

SECTI	ON 15 REGULATORY INFO	RMATION
15.1.	Safety, health and environ	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	trictions of use
	Authorizations:	-
	Restrictions:	-
		EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;
		The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);
	Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;
		EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;
		EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-



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Trading na	nme:	METHENAMINE, SOLUTION			
Product co	ode: MET-O1	-X** Date	of compilation:	03 July 2019	Version: 3

	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessment	
	None	

SECTIO	SECTION 16 Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	PBT Stable, bioaccumulative and toxic vPvB Strongly stable and strongly bioaccumulative. LD ₅₀ Lethal dose, 50% LC ₅₀ Lethal concentration, 50% STOT-SE Specific target organ toxicity - single exposure			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	cation (Classification procedure			
_	-	-			
16.5.	Relevant H statements (numbe	r and full text)			
	H: H317	May causes an allergic skin reaction.			
16.6.	Training advice: -				
16.7.	Further information: \	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX:

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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Trade name:	BORAX, SOLUTION				
Product code:	BO-OT-X**	Date of compilation:	27 June 2019	Version:	2

SECTI	ON 1: Identification of	the substan	ce/mixture ar	nd of the company/undertaking		
1.1.	Product identifier					
	Trade name:	BORAX, S	OLUTION			
	Chemical name:	-	-			
	Catalogue number:	BM-X**				
1.2.	Relevant identified us	es of the sub	of the substance or mixture and uses advised against			
	Uses:		For use with	Grocott and P.A.S.M./Jones kits.		
	Uses advised against:		Only the ider	ntified uses are advised.		
	Reason why uses advi	The product is intended for use only as an <i>in vitro</i> diagram device, registered at the Agency for Medicinal Products Devices and there is no reason to use it for other purposes.				
1.3.	Details of the supplier	of the safet	y data sheet			
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb +385 1 2409997			
	Telephone number:					
	Telefax:		+385 1 2404039 <u>msds@biognost.hr</u>			
	e-mail of competent p	person:				
	National contact:		-			
1.4.	Emergency telephone	numbers				
	National Protection a	nd Rescue D	irectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTION 2. HAZARDS IDENTIFICATION						
2.1.	Classification of the substance	Classification of the substance or mixture				
2.1.1.	Classification according to R	egulation (EC) No 12	72/2008 (CLP)			
	Hazard class and cat	egory code:		Hazard statement*:		
	Repr. 1B H360FD					
2.1.2.	Additional information					
	-	-				
* For fu	ıll text of Hazard- and EU Haza	rd-statements: see S	ECTION 16			
2.2.	Label elements					
	Product identification: BORAX, SOLUTION					
	Identification number: -					
	Authorisation number:	-				



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Trade name:		BORAX	, SOLUTION		
Product code:	BO-OT-X**	Date of compilation:	27 June 2019	Version:	2

	Hazard pictograms:	GHS08
	Signal word:	Danger
	Hazard statement:	H360Df May damage fertility. May damage the unborn child.
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P308+P313 IF exposed or concerned: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	-	

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)			
1330-43-4/ 215-540-4/ 005-011-00-4	-	< 5%	disodium tetraborate	Repr. 1B; H360FD			

SECTI	ON 4. First aid measures					
4.1.	Description of first aid measures					
	General notes:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Immediately remove any clothing soiled by the product.				
	Following inhalation:	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.				
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap and rinse thoroughly. If symptoms persist, consult a doctor.				
	Following eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.				
	Following ingestion:	DO NOT induce vomiting. If symptoms persist, consult a doctor.				
	Self-protection of the first aider	Avoid direct contact with the chemical; use appropriate protective equipment described in Section 8.				
4.2.	Most important symptoms a	and effects, both acute and delayed				



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Trade name:	BORAX, SOLUTION					
Product code:	BO-OT-X**	Date of compilation:	27 June 2019	Version:	2	

	Following inhalation:	High concentration vapor inhalation may cause headache, dizziness, difficult breathing and unconsciousness.		
	Following skin contact:	Causes skin irritation, redness, swelling. Prolonged or repeated contact causes defatting and dry skin.		
	Following eye contact:	Vapors irritate eyes. Splashing may cause irritation and redness.		
	Following ingestion:	Nausea, vomiting (danger of aspiration), diarrhoea. Aspiration may cause headache, vertigo, nausea, dazed feeling-unconsciousness/coma, possible hypothermia, reactions to the heart/circulatory system such as vasodilation (flush), hypotension, arrhythmia (possible ventricular fibrillation through cardiac sensitization), danger of central respiratory paralysis or of cardiac arrest; functional disturbance to the liver and kidneys and persistent disturbance to the CNS as sequelae.		
4.3.	Indication of any immediate medical attention and special treatment needed			
	No further relevant information available.			

SECTIO	N 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.			
	Unsuitable extinguishing media:	water with full jet			
5.2.	Special hazards arising from the subs	tance or mixture			
	Hazardous by products of fire:	No information available.			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit con	npressed air breathing apparatus and fireproof clothing.			
5.4.	Additional information				
	Collect contaminated firefighting wat	er separately.			
	Do not contaminate the environment	with extinguishing media.			

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective equ	uipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8). Keep unprotected persons away.				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Do not breathe in vapor, ensure adequate ventilation and avoid contact with skin and eyes. Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					



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Trade name:	BORAX, SOLUTION					
Product code:	BO-OT-X**	Date of compilation:	27 June 2019	Version:	2	

	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2.	Environmental precautions	x:			
	Do not dispose of in sewage Protection and Rescue Direction	ge, drainage system and waterways. In case of large spillage contact National ectorate (NPRD) on 112.			
6.3.	Methods and materials for	containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
6.3.2.	Cleaning up:	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and 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 tools that may cause sparks.			
6.4.	Reference to other sections				
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.				

SECTIO	DN 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 heat and ignition. Carry out measures for preventing static electricity.			
	Measures to prevent aerosol and dust generation:		Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thor	oughly was	sh hands after work and before eating.			
7.2.	Conditions for safe storage, including any incompa	atibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.				
	Packaging materials:	Manufact	curer's original packaging.			



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Trade name:	BORAX, SOLUTION				
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	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:	-

	xposur	e contr	ols/persona	I protec	tion				
8.1. Cont	rol para	meters							
Substance			CAS No		Occupational exposure limit values/short term values		Biological limit values		
				ppm	n	mg/m³			
-			-		-		-	-	
Substance:	-								
EC No:	-		CAS No:	-					
DNEL									
					Industrial				
Route of exposure:		Acu	ite effect Ac		cute effect		Chronic effect		Chronic effect
Noute of expo	isure.		local	systemic			local		systemic
Oral	Oral -			-		-			-
Inhalation		-		-		-			-
Dermal		-		-		-			-
Critical physic	al parar	neters: s	solubility, fla	mmabilit	ty, corrosivity:		-		
					Consumer				
Route of expo	stiro.	Acu	te effect	Ad	cute effect		Chronic e	ffect	Chronic effect
Noute of expo	osuie.		local	:	systemic		local		systemic
Oral		-		-		-			-
Inhalation		-		-				-	
Dermal		-		-		-			-
PNEC									



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Environmental protection target			PNEC		
Fresh wate	er		No information available		
Freshwate	er sediments		No information available		
Marine wa	ater		No information available		
Marine se	diments		No information available		
Food chai	n		No information available		
Microorga	anisms in sewage treatment		No information available		
Soil (agric	cultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering controls	5			
	Substance/mixture related measures to prevent exposure during identified uses:	Use personal protective equipment. Do not eat, drink or smol the workspace.			
	Structural measures to prevent exposure:	No information available			
	Organisational measures to prevent exposure:	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure:		proper workspace ventilation in order to keep tration levels in air below permitted levels.		
8.2.2.	Personal protection equipment:				
8.2.2.1.	Eye and face protection:	tested	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU)		
8.2.2.2.	Skin protection				
	Hand protection:	techni contac satisfy standa Full co	s must be inspected prior to use. Use proper glove removal ique (without touching glove's outer surface) to avoid skin ct with this product. The selected protective gloves have to the specifications of EU Directive 89/686/EEC and the ard EN 374 derived from it. Ontact: Glove material: Viton Glove thickness: 0.7 mm Break through time: 480 min on contact: Glove material: Nitrile rubber Glove thickness: 0.4 mm		



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Trade name:	BORAX, SOLUTION				
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	Other skin protection:	Complete suit protecting against chemicals, flame retardant antistatic protective clothing (EN 13688). The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
8.2.2.3.	Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use type ABEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).
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 chemi	cal properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour:	no odour	No information available
	Odour threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density	No information available	No information available
	Bulk density:	No information available	No information available



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Trade name:	BORAX, SOLUTION				
Product code:	BO-OT-X**	Date of compilation:	27 June 2019	Version:	2

	Solubility(ies):	Insoluble in water	No information available		
	Partition coefficient: n-octanol/water (log Pow):	No information available	No information available		
	Auto-ignition temperature:	No information available	No information available		
	Decomposition temperature:	No information available	No information available		
	Viscosity:	No information available	No information available		
	Explosive properties:	No information available	No information available		
	Oxidising properties:	No information available	No information available		
.2.	Other information				
	-				

SECTIO	SECTION 10.: Stability and reactivity			
10.1.	Reactivity:	No relevant information available.		
10.2.	Chemical stability:	The product is chemically stable under recommended storage conditions.		
10.3.	Possibility of hazardous reactions:	No dangerous reactions known.		
10.4.	Conditions to avoid:	Sources of heat, flamesa and sparks.		
10.5.	Incompatible materials:	Strong oxidizing agents.		
10.6.	Hazardous decomposition products:	Carbon monoxide.		

SECTION 11. T	oxicological information	on					
11.1. Inforn	Information on toxicological effects						
Acute	Acute toxicity:						
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results		
Oral:	No information available	-	-	No information available	-		
Dermal:	No information available	-	-	No information available	-		
Inhalation:	No information available		-	No information available	-		
Specif	ic target organ toxicity -	single exposi	ure (STOT-SE):				
	Specific effects Target organ Note				Note		
Oral:	No information av	ailable	No inf	ormation available	-		
Dermal:	No information av	ailable	No information available -		-		



dermal

available

available

available

available

available

BIOGNOST® According to Regulation (EC) No. 1907/2006

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							ra	ge 9 01 17
Trade name:		BORAX, SOLUTION						
Product code:	E	3O-OT-X**	Date of	compilation	27 Jun	e 2019	Version:	2
Inhalation:		No information	available	R	espiratory s	system	-	
Aspira	tion h	azard:	-					
Irritatio	on and	d corrosion						
<u> </u>		Exp	osure S _l	pecies E	valuation	Method	***************************************	Note
Skin corrosion/i	rritatio	on -	-	-		-	No inforr	nation available
Serious eye damage/irritatio	on	-	-	-		-	No inforr	nation available
		·	·					
Sensiti	zation	1						
Skin sensitizatio	n:	No informa	ntion available					
Respiratory sensitization: No information available								
Sympt	oms re	elated to physic	cal, chemical, a	nd toxicologi	cal propert	ies		
Oral exposure:			eeling-uncons y system such llation through t; functional di	sciousness/co as vasodilation cardiac sens	ma, possibl on (flush), h itization), d	e hypotherr ypotension, anger of cei	nia, reaction arrhythmia ntral respirat	s to the
Dermal exposur	Δ.	Causes skin irrit dry skin.	ation, redness	, swelling. Pro	longed or	repeated co	ntact causes	defatting and
Inhalation exposure:	Vapor inhalation may cause nose and throat irritation followed by sore throat, cough, breathing and suffocating. High concentration vapor inhalation may cause headache.					adache, malaise		
Eye exposure:	Eye exposure: Vapors irritate eyes. Splashing may cause irritation and redness, lacrimation, pain, swelling blurred vision, photophobia.					ain, swelling,		
-								
Repeat	ted do	se toxicity (sub	acute, subchro	onic, chronic)	-			
		Dose	Exposure time	Species	Metho	od Ev	aluation	Note
Subacute oral	No ava	information ailable	No information available	No information available	No inform availab		o formation vailable	-
Subacute	No	information	No information	No information	No ı inform	N nation in	o formation	-



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damage to organs.

Trade name:	BORAX, SOLUTION				
Product code:	BO-OT-X**	Date of compilation:	27 June 2019	Version:	2

Product code:	BO-O1-X**	Date of o	compilation:	27 June 2019	Vers	sion: 2
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	on -
Subchronic oral	No information available	No information available	No information available	No information available	No information available	on -
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	on -
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	on -
Chronic oral	No information available	No information available	No information available	No information available	No information	on -
Chronic dermal	No information available	No information available	No information available	No information available	No information	on -
Chronic inhalation	No information available	No information available	No information available	No information available	No information	on -
	:	i		i	:	;
Specific	target organ toxic	city - repeated ex	kposure (STO	Γ-RE):		
		Specific e	ffects	Target org	gan	Note
Subacute oral		No information available		No information available		-
Subacute dermal No information available No information available -			-			

Specific target orga	an toxicity - repeated exposure (ST	OT-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	Central nervous system,	May cause

CMR effects (carcinogenicity, m	utagenicity, reproductive toxicity)
Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Mutagenicity in-vitro:	No information available

liver, kidney



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Trade name:		BORAX,	SOLUTION			
Product code:	BO-OT-X**	Date of compilation:	27 June 2019	Version:	2	

	Genotoxicity:	No information available
	Mutagenicity in-vivo:	No information available
	Germ cell mutagenicity :	No information available
	Reproductive toxicity:	No information available
	Summary of evaluation of the CMR properties:	Studies did not demonstrate CMR effects.
11.2.	Practical experiences:	
	Classification observations:	No information available
	Other observations:	No information available
11.3.	General notes:	

SECTION 12. Ecologi	SECTION 12. Ecological information							
12.1. Toxicity								
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	No information available	No information available	-	-		
Crustacea:	EC ₅₀	48 hours	No information available	No information available	_	-		
Algae/aquatic plants:	IC ₅₀	72 hours	No information available	No information available	-	-		
Other organisms:	-	-	-	-	-	-		
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-		
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-		
Algae/aquatic plants:	IC ₅₀	72 hours	No information available	No information available	No information available	-		



											Page 1	LZ 01	1/
Trade i	name:						BORAX,	SO	LUTION				
Produc	ct code	•	BO-OT-X**		Da	Date of compilation:		27	June 2019		Version:	2	
Other o	organisn	ns:	-	-		-			-		-	-	
12.2.			e and degrada	bility									
	Abioti		gradation			**							
i			Degradation h	alf-live	S		Method			Ev	/aluation		Note
Marine water		No	information av	/ailable	2	No infor	mation ava	ilabl	e No inf	orm	ation available		-
Fresh w	/ater	No	information av	/ailable	9	No infor	mation ava	labl	e No inf	orm	ation available		-
Air		No	information av	/ailable	9	No infor	mation ava	ilabl	e No inf	orm	ation available	ı	-
Soil		No	information av	/ailable	е	No infor	mation ava	ilabl	e No inf	orm	ation available	!	-
	Biode	arada	ation										
% Dea	radatio		Time (day	/s)		Met	thod		Evaluation))	N	lote	
		_		matio	n N	o informa		N	lo information				
-		a	available			ailable			vailable		-		
12.3.			llative potentia										
			ater partition of	coeffic	ient (1		1		
Valu	е	Cor	ncentration	pН		°C	Method		Evaluat			Note)
-		No availa	information	_	-	_	o informatio ⁄ailable	on	No informa available	tion	-		
		avana				av	/aliable		available				
	Bioco	ncent	tration Factor	(BCF)									
V	'alue		Speci			M	ethod		Evaluatio	n		Note	
y dide speci				No infor									
-			-			available	<u>, </u>	-			-		
	Chro	ic cc	otovicity										
			otoxicity	1 1 1 1 1 1 1 1 1 1	Exr	oosure							
	Valu	e	Do	se		ime	Species	5	Method		Evaluation		Note
Chronic toxicity on fish LC ₅₀			No inform	o No formation informatio		n	No information	1	No information		_		



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Trade name:			BORAX,	SOLUTION		
Product code:	BO-OT-X**	Date of co	ompilation:	27 June 2019	Version:	2
		available	available	available	available	

								,		
				available	available	avai	lable	availab	le	
Chronic	c toxic	city on		No	No	No		No		
		aphnia)	EC ₅₀	information	information		rmation	informa		-
		,		available	available	avai	lable	availab	le	
12.4.		bility in soil								
				oution in environm	ental compartme	nts:				
		information av	ailable							
	Sur	face tension:								
		Value		°C	Concentration	on		Method		Note
	No ava	informa ilable		lo information vailable	No information available			mation a	available	-
	Ads	orption / deso	rption							
T		A/D coeffi	cient	L IV	F		N 4 - 4 l-	l		-4-
Transp	ort	Henry's cor	nstant	log Kow	Evaporation	rate	Meth	100	IN	ote
Soil-Wa	ater	No infor available	mation	No information	on No informati available	on	No inforn available	nation	-	
Water-	Air	No infor available	mation	No information	on No informati available	on	No inforn available	nation	-	
Soil-Air	r	No infor available	mation	No information			No inforn available	nation	-	
125		lı (DDT	L D D							
12.5.		ults of PBT and		ssessment						
	No	information av	allable							
12.6.	Oth	er adverse effe	ects							
	No	information av	ailable							
	1									
SECTIC	ON 13	. Disposal cor	nsiderat	ions						
13.1.	W	aste processin	g metho	ods						
13.1.1.	Pı	roduct/Packagi	ing disp	osal:						
	Sı			ne legal person au	thorized by the M	linistry	of Enviror	nmental	and Natur	·e



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Trade name:		BORAX,	SOLUTION		
Product code:	BO-OT-X**	Date of compilation:	27 June 2019	Version:	2

13.1.2.	Waste codes/waste designations according to Low:					
	Disposal must be made according to official regulations.					
13.1.3.	Waste tretment – relevant	information				
	No information available					
13.1.4.	Sewage disposal – relevan					
	Waste must not be dispos	ed of into the sewage system.				
13.1.5.	Other disposal recommen	dations				
15.1.5.	•					
	authorized by the ministry	duct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge. Do not dispose of in places where				
13.1.6.	Relevant Community prov	isions:				
	Disposal must be made ac	cording to official regulations.				
SECTIO	N 14. Transport information	n				
	Transporting/shipment by ro	oad (ADR)				
UN num		Not subject to transport regulations.				
	per shipping name:	-				
•	rt hazard class(es):	-				
Packing		-				
	mental hazards:	-				
Special	precautions for user:	-				
	Transporting/shipment by ra					
UN num		Not subject to transport regulations.				
	per shipping name:	-				
······	rt hazard class(es):	-				
Packing 	3 .	-				
	mental hazards:	-				
Special	precautions for user:	-				
	Transporting/shipment by ir					
UN num		Not subject to transport regulations.				
	per shipping name:	-				
Transpo	Transport hazard class(es): -					



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Trade name: Product code: BO-OT-X**		BORAX	BORAX, SOLUTION						
		Date of compilation:	27 June 2019	Version:	2				
Packing group:		-							
Environmental ha	zards:	-							
Special precaution	ns for user:	-							
Transpor	ting/shipment by sea (I	MDG)							
UN number:		Not subject to transport regulations.							
UN proper shippi	ng name:	-							
Transport hazard	class(es):	-							
Packing group:		-							
Environmental ha	zards:	-							
Special precaution	ns for user:	-							
Transport in bulk condition in accordance with Annex II. of MARPOL 73/78 and IBC Codex:									
Transpor	ting/shipment by air (I	CAO-TI/IATA-DGR)							
UN number:		Not subject to transport regulations.							

UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

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



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Trade name:		BORAX,	SOLUTION		
Product code:	BO-OT-X**	Date of compilation:	27 June 2019	Version:	2

	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances; EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives	
	Information according 1999/13/EC about limitation of emissions of volatile organic compo		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
15.2.	Chemical safety assessment		
	None		

SECTIO	ON 16. Other information	
16.1.	Indication of changes:	-
16.2.	Abbreviations and acronyms:	PBT Stable, bioaccumulative and toxic vPvB Strongly stable and strongly bioaccumulative LD ₅₀ Lethal dose, 50% LC ₅₀ Lethal concentration, 50% STOT – SE Specific target organ toxicity - single exposure
16.3.	Key literature references and source of data:	
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classifi	cation	Classification procedure
-		-
16.5.	Relevant H statements (numl	per and full text)
	H: H360DF	May damage fertility. May damage the unborn child.
16.6.	Training advice:	-



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Trade name:		BORAX,	SOLUTION		
Product code:	BO-OT-X**	Date of compilation:	27 June 2019	Version:	2

		** "X" in the product code marks different volumes (different packaging of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with
		instructions for use or improper use of the product described in this
		material safety data sheet.

ANNEX: Exposure scenario resulting to Chemical safety assessment
-



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Trading name:		GOLD CHLORIDE, 0.2% SOLUTION			
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

SECTION	ON 1: Identification of t	:he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	GOLD CHLO	ORIDE, 0.2	% SOLUTION	
	Chemical name:	-			
	Catalogue number:	ZK02-OT-X	**		
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against	
	Uses:		Compor	nent of many special staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advis	sed 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 shee	t	
	Supplier:		BioGnos	t Ltd.	
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance	Classification of the substance or mixture			
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Not identified as hazardous sub	ostance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	GOLD CHLORID	E, 0.2% SOLUTION		
	Identification number: -				
	Authorization number: -				
	Hazard pictograms:	-			



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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION				
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

SECTION 3. Cor	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)			
-	-	-	Contains no hazardous substances	-			

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



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Trading name:		GOLD CHLORIDE, 0.2%	6 SOLUTION		
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

4.3	Indication of any immediate medical attention and special treatment needed
	-

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media: water spray, dry p	owder, CO ₂ or alcohol resistant foam			
	Unsuitable extinguishing media: Water with full jet				
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products: no information av	Hazardous combustion products: no information available			
5.3	Advice for firefighters	Advice for firefighters			
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.				

SECTIO	ON 6. Accidental release meas	ures				
6.1	Personal precautions, protective	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).					
6.2	Environmental precautions:					
	Do not dispose of in sewage, or 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	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.				



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Trading name:		GOLD CHLORIDE, 0.2%	6 SOLUTION		
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

6.3.3.	Other information: Secure proper ventilation. Do not use incompatible materials (see Secure 10).			
6.4	Reference to other sections	Reference to other sections		
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal information.			

SECTIO	ON 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	turer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away	y from food and drink. Keep the containers osed.		
	Advices for storage equipment:	The storage must be made of hard material; for must be resistant to chemicals. There must be that directly leads into sewage system. Secure ventilation.			
	Eurther information on storage conditions:		nce the unused material in the storage room t use empty containers for storing other Do not store with incompatible materials on 10).		
7.3	Specific end use(s)				
_	Recommendations:	-			
	Industrial sector specific solutions:	-			

SECTION 8. Exposure controls/personal protection



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Trading name:		GOLD CHLORIDE, 0.2	GOLD CHLORIDE, 0.2% SOLUTION				
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3		

8.1 Control parameters								
Substance		CA	S No		•	exposure limit term values		Biological limit values
				ł	opm	mg/m³		-
-			-		-	-	-	
Substance name:	-							
EC No:	-	CAS No	: -					
DNEL								
				Ind	lustrial			
Route of	Acu	ıte	Acut	te		Chronic		Chronic
exposure:	effect	local	effect sys	stemic		effect local		effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal	-		-		-	ı		-
Critical physical parameters: solubility, flammability, corrosivity:								
			1	Cor	nsumer			
Route of		cute	Acut		Chronic			Chronic
exposure:	effec	t local	effect sys	stemic	c effect local			effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal			-					-
PNEC								
Environmental prote	ection tar	get			PNEC			
Fresh water					no information available			
Freshwater sedimer	nts				no information available			
Marine water					no information available			
Marine sediments					no inform	nation available		
Food chain					no information available			
Microorganisms in sewage treatment					no information available			
Soil (agricultural)				no information available				
Air				no inform	nation available			
8.2 Exposu	8.2 Exposure controls							
8.2.1. Approp	oriate eng	ineering o	controls					



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Trading name:		GOLD CHLORIDE, 0.2	% SOLUTION		
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

	Substance/mixture related measure prevent exposure during identifie		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 preverse exposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	levels	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection				
	Hand protection:		otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
	Other skin protection:	footwe entire imperr	g everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Section 6			
	Structural measures to prevent exposure:	Use m	odern equipment.		
	Organisational measures to prevent exposure:	Adapt workpl	t the work process to the required working conditions of the place.		
	Technical measures to prevent		ection 6		

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties



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Trading name:	GOLD CHLORIDE, 0.2% SOLUTION				
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

		Value	Method
	Physical state:	liquid	No information available
	Colour:	light yellow	No information available
	Odour:	No information available	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
9.2	Other information		

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



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Trading name:		GOLD CHLORIDE, 0.29	% SOLUTION		
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

11.1	Information	on toxicological e	ffects						
	Acute toxicit								
Route of		Method	Species Do		Dose LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure time		Results
Oral:		No information available	-		information lable		-		-
Derma	·	No information available	-		information lable		-		-
Inhalat	ion.	No information available	-		information lable		-		-
	Specific targ	et organ toxicity -	- single expos	sure (S	TOT SE):				
		Specific	effects		Targ	et orga	n		Note
Oral:		No information av	ailable		No informati	on avail	able	-	
Derma	l:	No information av	ailable		No information available -			_	
Inhalat	ion:	No information av	ailable		No informati	on avail	able	_	
	Aspiration h		No	inforr	nation availab	le.			
	<u> </u>	Exposure t	ime	Spec	ies Evalı	uation	Method		Note
Skin corrosi	on/irritation:	-	-		-		-	-	
Serious damag	s eye je/irritation	-	-		-		-	-	
	Sensitization	1							
Skin se	ensitization:	No infor	mation availa	ble.					
Respira	atory sensitizat	ion: No infor	mation availa	ble.					
	Symptoms r	elated to the phys	ical, chemica	l and t	oxicological cl	naracter	istics		
Oral ex	(posure:	Harmful if swall	owed.						
	l exposure:	Harmful if abso	rbed through	n skin.	May cause ski	n irritati	on.		
Derma					iratam, tract ir	ritation			
	ion exposure:	Harmful if inhal	ed. May caus	se resp	iratory tract in	ntation.			



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Trading name:		GOLD CHLORIDE, 0.2% SOLUTION			
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

Specific target	organ toxicity – repeated exposure (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	-



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Trading name:		GOLD CHLORIDE, 0.2%	SOLUTION	<u> </u>	
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

Chron	ic inhalation	No information availa	able	No information available -				
	CMR effects (c	arcinogenicity; mutage	nicity; re	eproductive toxicity)				
	Carcinogenicit	ry:	Bas	sed on available data, the classification criteria are not met.				
	Mutagenicity in vitro:			sed on available data, the classification criteria are not met.				
	Genotoxicity:		Bas	sed on available data, the classification criteria are not met.				
	Mutagenicity in vivo:			sed on available data, the classification criteria are not met.				
	Germ cell mut	agenicity:	Bas	Based on available data, the classification criteria are not met.				
	Reproductive	toxicity:	Bas	sed on available data, the classification criteria are not met.				
	Summary of properties:	evaluation of the	ne CMR Based on available data, the classification criteria are met.					
				1				
11.2	Practical expe	riences:						
	Classification of	observations:		No information available				
	Other observa	tions:		No information available				
11.3	General notes:							
	_							

SECTION 12. Ecologic	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	_	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-



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Trading	name.	2 2 3 4 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			G	OLD CHLORID	E. 0 2	% SOLU	ΓΙΟΝ	Page 11 of 1	<u> </u>
Product		7 k	<02-OT-X*	·*		ate of compila	-		/ 2019	Version:	3
			32 01 X			ate of compila		3± 301	,	. 5.5.511.	
Crustace	Crustacea: EC ₅₀ 48 hours		No information available		No inforr availa	mation able	No informatio available	n -			
Algae/ac	quatic pla	ınts	IC ₅₀	72 hours		No information available	No inforr availa	mation able	No informatio available	n -	
Other or	ganisms		-	-	-	-	-		-	-	
12.2	Persister	nce ar	nd degrada	bility							
	Abiotic c	degra	dation								
	Degradation half-lives				Method		Evaluation	1	Note		
Marine v	Marine water No information available				information ilable	No in availa	nformation able) -			
Fresh wa	water No information available			information ilable	No information available		1 -	-			
Air		No information available			information ilable	No in availa	nformation able	n –	-		
Soil	No information available			information ilable	No in availa	nformation able	n				
	Biodegra	adatio	on .								
	radation		Time (davs)		Method		Evaluation	1	Note	
No infor	mation	I		formation		No information No information available available			on No information available		
					i				:		
			ive potentia		l = =: 1/)					
Value			r partition on tration	pH	°C	ow) Method		Evalua	ation	Note	
		-	-		- Evalua		-				
	Riocons	nntrat	ion factor (RCE)		i					
-	llue	ziilidl	Speci			Method		Evaluatio	n l	Note	
No infor	mation	No	•	formation	No avai	information		information		inote	



12.6

Other adverse effects

No further relevant information available.

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

Tradin	g name	•		GOLD	CHL	ORIDE,	, 0.2% \$	SOLUT	ION		
Produ	ct code:	ZK	02-OT-X**	Date	Date of compilation: 01 July 2019					Version:	

	Chroni	c ecotox	ricity								
Value Dose		Dose	Exposure time	Spe	cies	Meth	nod	Evaluation	n Not	е	
Chronic toxicity on fish LC ₅₀		information	No inform availat		No informa availab	ation	No information available	-			
Chronic toxicity on crustacea (<i>Daphnia</i>)			No inform availab	1	No informa availab	ation	No information available	-			
12.4	Mobili	ty in soil									
	Knowr	or pred	icted distributi	on in environme	ental co	omparti	ments:				
	No inf	ormation	n available								
	Surfac	e tensior	າ:								
Value °C			°C	Concentration Metho			od		Note		
	No inform availab		No information available	No informati available	ion	n No information available		1	-		
	Adsorp	otion / d	esorption								
Transp	ort	=	oefficient s constant	log Kow	Eva	aporatio	on rate	N	lethod	Note	
Soil-wa	ator :	lo vailable	information	No information available		inform ilable	ation	No inf availal	ormation ole	-	
Water-air No information available		No information available		inform ilable	ation	No inf availal	ormation ole	-			
Soil-air	•	lo vailable	information	No information available		inform ilable	ation	No inf availal	ormation ole	-	



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Trading name:		GOLD CHLORIDE, 0.2%	SOLUTION		
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

13.1	Waste treatment method	S				
13.1.1.	Product/Packaging dispo	sal:				
	Submit for disposal to the Protection.	e legal person authorized by the Ministry of Environmental and Nature				
13.1.2.	Waste codes/waste desig	nations according to Law:				
	Packaging that contains r	esidual hazardous substances or is contaminated with hazardous substances				
13.1.3.	Waste treatment – releva	nt information:				
	No information available					
13.1.4.	Sewage disposal – releva	nt information:				
	Waste must not be disposed of into the sewage system.					
13.1.5.	Other disposal recommer	ndations:				
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.				
13.1.6.	Relevant Community prov	visions:				
	Disposal must be made a	ccording to official regulations.				
SECTIO	N 14 TRANSPORT INFORM	ATION				
	Transporting/shipment by	road (ADR)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Environr	nentally hazardous:	-				
Special p	precautions for user:	-				
	Transporting/shipment by i	rail (RID)				
UN num	ber:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				
Packing group: Environmentally hazardous:						



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Trading name:		GOLD CHLORIDE, 0.29	ORIDE, 0.2% SOLUTION		
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

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 (IM	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 (ICA	AO-TI/IATA-DGR)	
UN number:	Not subject to transport regulations	
UN proper shipping name:	-	
Transport hazard class(es):	-	
Packing group:	-	
Environmentally hazardous:	-	
Special precautions for user:	-	
Further information: -		

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



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Trading name:		GOLD CHLORIDE, 0.2	% SOLUTION		
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	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	ON 16. Other information		
16.1	Indication of changes:	-	
16.2	Abbreviations and acronyms:	PBT vPvB	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50%
10.2	Abbreviations and acronyms:	LD ₅₀ LC ₅₀ TCOJ	Lethal concentration, 50% Specific target organ toxicity - single exposure
16.3.	Key literature references and source of data:	-	
16.4.	Classification and procedure us 1272/2008 (CLP)	ed to derive the	e classification for mixture according to Regulation (EC)
Classifi	cation	lassification pro	ocedure
_	-		
16.5. Relevant H statements (numb		and full text)	
	H:		
16.6.	Training advice: -		



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Trading name:		GOLD CHLORIDE, 0.2%	CHLORIDE, 0.2% SOLUTION		
Product code:	ZK02-OT-X**	Date of compilation:	01 July 2019	Version:	3

		** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with
		instructions for use or improper use of the product described in this
		material safety data sheet.

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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Trading name:		SODIUM THIOSULFATE,	2% SOLUTION		
Product code:	NT2-OT-X**	Date of compilation:	05 July 2019	Version:	3

SECTIO	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SODIUM TH	liosulfa ⁻	TE, 2% SOLUTION	
	Chemical name:	-			
	Catalogue number:	NT2-OT-X*	*		
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		:	identified uses are advised.	
	Reason why uses advi	sed against:	medical	he product is intended for use only as an <i>in vitro</i> diagnostic nedical 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 shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039		
	Telephone number:				
	Telefax.:				
	e-mail of competent p	person:	msds@biognost.hr		
	National contact:		_		
1.4	Emergency telephone	number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information: Other information:			+385 1 2348 342	
				-	

SECTIO	SECTION 2. Hazards identification					
2.1	Classification of the substance	or mixture				
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and catego	ory code:	Hazard statements*:			
	Not identified as hazardous sub	ostance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	SODIUM THIOS	ulfate, 2% solution			
	Identification number:	-				
	Authorization number:	-				
	Hazard pictograms:	-				



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Trading name:	S	SODIUM THIOSULFATE,	2% SOLUTION	<u> </u>	
Product code:	NT2-OT-X**	Date of compilation:	05 July 2019	Version:	3

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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)		
7772-98-7/ 231-867-5/ -	-	< 2 %	sodium thiosulphate	not classified		

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



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Trading name:	S	ODIUM THIOSULFATE,	2% SOLUTION		
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	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
4.3	Indication of any immediate medical attention and special treatment needed		
	_		

SECTI	SECTION 5. Firefighting measures			
5.1	Extinguishing media			
	Suitable extinguishing media:	water spray, dry powder, CO ₂ or alcohol resistant foam		
	Unsuitable extinguishing media:	Water with full jet		
5.2	Special hazards arising from the substance or mixture			
	Hazardous combustion products:	no information available		
5.3	Advice for firefighters			
	Use a self-contained open-circuit o	compressed air breathing apparatus and fireproof clothing.		
5.4	Additional information			
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.		

SECTIO	ECTION 6. Accidental release measures			
6.1	Personal precautions, protective	ve equipment and emergency procedures		
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).			
6.2	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.		



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Trading name:		SODIUM THIOSULFATE,	2% SOLUTION		
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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbir material. Place the waste material in tightly closed impermeab containers. Store the substance in well ventilated storage rooms un disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.	
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).	
6.4	Reference to other sections		
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.		

SECTIO	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	on:	Secure proper ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
	Other measures:	Protect against electrostatic cha		
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eatir		sh hands after work and before eating.	
7.2	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.	
	Packaging materials:	Manufactu	ırer's original packaging.	
	Requirements for storage rooms and vessels:	Keep away tightly clo	r from food and drink. Keep the containers sed.	
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.	
	Further information on storage conditions:	and do no	ace the unused material in the storage room t use empty containers for storing other Do not store with incompatible materials on 10).	



Air

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

Industrial sector specific solutions: -								
SECTION 8. Expos	ure contr	ols/perso	nal protec	tion				
8.1 Control pa	arameters							
Substance (CA	CAS No va		ccupational exposure limit values/short term values ppm mg/m³		Biologic	al limit values
-			-		-	-	-	
				•	•			
Substance name:	-							
EC No:	-	CAS No	: -					
DNEL	·		·					
				Ind	lustrial			
Route of exposure:	Acu effect		Acut			Chronic effect local	eff	Chronic fect systemic
Oral	- -			-		-		
Inhalation	-		_		-		-	
Dermal	-		-					
Critical physical pa	rameters: s	olubility,	flammabilit	ty, corr	rosivity:	-		
				Con	sumer	<u> </u>		
Route of exposure:		cute et local	Acut effect sys		Chronic c effect local		eff	Chronic fect systemic
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
PNEC								
Environmental prof	tection tar	get			PNEC			
Fresh water					no information available			
Freshwater sediments					no information available			
Marine water					no information available			
Marine sediments					no information available			
Food chain					no inform	nation available		
Microorganisms in	sewage tr	eatment			no inform	nation available		
Soil (agricultural)					no information available			

no information available



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Trading name:					
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8.2	Exposure controls						
8.2.1.	Appropriate engineering controls						
	Substance/mixture related measure prevent exposure during identifie		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 preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent ex	posure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.				
8.2.2.	Personal protection equipment						
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.					
8.2.2.2.	Skin protection	i					
			otective gloves have to satisfy the specification of action (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min				
	Other skin protection:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.				
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No info	ormation available				
8.2.3.	Environmental exposure controls	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Se	ction 6				
	Structural measures to prevent exposure:	Use mo	odern equipment.				
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the ace.				



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				: age : e: =e	
Trading name:	S	2% SOLUTION			
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Technical measures to prevent	See Section 6
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:	No information available	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available

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



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Trading name:		SODIUM THIOSULFATE, 2% SOLUTION				
Product code:	NT2-OT-X**	Date of compilation:	05 July 2019	Version:	3	

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

SECTION 11. T	ation on toxico								
	toxicity:	9.00.							
Route of exposure:	Meth	od Sp	ecies	Do	ose LD ₅₀ /LC ₅₀ o	or	Exposure ti	me	Results
Oral:	No inform available	nation	-		information lable		_		_
Dermal:	No inform available	nation	_		information lable		_		_
Inhalation:	No inform available	nation	-		information lable		_		_
Specif	c target organ t	oxicity – singl	e expo	sure (S	TOT SE):				
		Specific effect	ts		Targ	get orga	n		Note
Oral:	No inform	No information available			No information available		able	-	
Dermal: No information available		e	No information available		able	-			
Inhalation:	No inform	mation available			No informati	on avail	able	-	
Aspira	tion hazard:		N	o inforr	mation availab	le.			
Irritatio	on and corrosio	n							
	Ex	posure time		Spec	ies Eval	uation	Method		Note
Skin corrosion/irrita	ion:		-		-		-	-	
Serious eye damage/irritati	on -		-		-		-	-	
Sensiti	zation								
Skin sensitization	n: ſ	No informatio	n availa	able.					
Respiratory sen	citization: 1	No informatio	n avail:	ahla					



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Trading name:	S				
Product code:	NT2-OT-X**	Date of compilation:	05 July 2019	Version:	3

Sympto	ms rela	ated to the ph	ysical, chemic	al and toxicolog	gical characteristi	ics	
Oral exposure:		Swallowing n	nay cause disc	omfort in abdo	men and abdom	inal pains.	
Dermal exposure):	Allergic perso	ons may displa	y irritation.			
Inhalation expos	ure:	Allergic perso	ons may displa	y irritation afte	r prolonged or re	epeated expo	sure.
Eye exposure:		May cause ey	e irritation.				
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available		No information available	No information available	No information available	No information available	-
Subacute dermal	No information available		No information available	No information available	No information available	No informatior available	1 -
Subacute inhalation	No information available		No information available	No information available	No information available	No informatior available	ı -
Subchronic oral	No availa	information able	No information available	No information available	No information available	No informatior available	1 -
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No informatior available	-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No informatior available	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic dermal	No availa	information able	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	ı -
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):		
			Specific effec	ts	Target o		Note
Subacute oral			tion available		No information		_
Subacute dermal	<u> </u>	No informa	tion available		No information	n available	-



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Trading name:		SODIUM THIOSULFATE,	2% SOLUTION		
Product code:	NT2-OT-X**	Date of compilation:	05 July 2019	Version:	3

11.3	General notes:								
	Other observa	tions:	No information available						
	Classification o		No information available						
11.2	Practical exper								
	Summary of properties:	evaluation of the CM	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. CMR Based on available data, the classification criteria are not met.						
	Reproductive t	oxicity:							
	Germ cell muta								
	Mutagenicity i								
	Mutagenicity <i>in vitro</i> : Genotoxicity:		Based on available data, the classification cr						
			Based on available data, the classification criteria are not met.						
	Carcinogenicit	y: I	Based on available data, the classification criteria are not met.						
	CMR effects (c	arcinogenicity; mutagenicity;	nicity; reproductive toxicity)						
Chroni	c inhalation	No information available	No information available	-					
	c dermal	No information available	No information available	-					
	ronic oral No information available		No information available	-					
Subchr	onic inhalation	No information available	No information available	-					
Subchr	onic dermal	No information available	No information available	-					
Subchr	onic oral	No information available	No information available	-					
Subacı	ute inhalation	No information available	No information available	-					

SECTION 12. Ecologi	SECTION 12. Ecological information										
12.1 Toxicity											
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note					
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-					
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-					



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Trading name:		SODIUM THIOSULFATE,	2% SOLUTION		
Product code:	NT2-OT-X**	Date of compilation:	05 July 2019	Version:	3

Product code:		N12-O1-X**		Date of compila	Date of compilation:		05 July 2019		Version:	
Algae/aquatic p	olants	IC ₅₀	4 days	No information available	No inform		No information	on	-	
Other organism	ns	_	_		avallat	ле -	- available		_	
Chronic (long-t		Dose	Exposure time	Species	Me	thod	Evaluat	ion	Note	
Fish		LC ₅₀	96 hours	No information available	No inform availat		No information available	on	-	
Crustacea:		EC ₅₀	48 hours	No information available	No inform availak		No information	on	_	
Algae/aquatic p	olants	IC ₅₀	72 hours	No information available	No inform availak		No information	on	-	
Other organism	าร	-	-	-	-		-		-	
12.2 Persist		and doored	hilit.							
		ind degrada	Dility							
Abiotio	T -	adation egradation h	alf-lives	Method	F	valuatio	n	N	lote	
		nformation a		No information available		ormatio				

	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				

12.3	Bioaccumulative poter	\+i\\
1/7	DIDACCUMULATIVE DOTEL	шаг

Octanol-water	partition	coefficient	(log	Kow)	١
---------------	-----------	-------------	------	------	---

Value	Concentration	рН	°C	Method	Evaluation	Note
-	-	-	_	-	-	-



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										r	age 12 of 10)
Trading	g name:				SODIUN	и THI	OSULF	ATE, 2	% SOLUT	TION		
Produc	ct code:	NT2	2-OT-X**		Date	of co	mpilatio	on:	05 July 2	019	Version:	3
	Bioconc	entratio	n factor (BCF)									
V	/alue		Species		M	lethoc	 :	Εν	/aluation		Note	
	ormation	No		information		rmatic			ormation			
availabl	le	avail	lable		available	e		availab	le	-		
	Chronic	ocotovi	city									
	Chronic	ecotoxi	City	Fyn	osure							
Value		Dose	Exposure time		Spe	Species		nod	Evaluation	Note	;	
				I -		No	No		N			
Chronic toxicity on fish		LC ₅₀	infori availa	mation able		ormation informat ailable available		1	formation ailable	-		
				No	10.0	No	No N		No No			
	c toxicity o ea (<i>Daphr</i>		EC ₅₀		mation		nformation inform				-	
				availa	able	availa	able	availab	le a	/ailable		
12.4	Mobility	in soil										
12.1	1		cted distributi	on in e	nvironme	ental d	ompart	ments:				
			available				,					
	Surface	tension:										
	Valu	e	°C	C	oncentrat	ion		Metho	od		Note	
	No		No	No	informat	ion	No inf	ormatio	า			
	informa available		information available		ilable		availat			-		
	avanaon		avanable									
							<u> </u>					
		<u></u>		<u>i</u>			<u>1</u>			<u>i</u>		
	Adsorpt	ion / de	sorption									
Transpo	Transport A/D coefficient				ng Kow	F,	/aporati	on rate	Ma	thod	Note	
Tanape			constant					tion rate Meth				
Soil-wa	nter ava	ailable	information	No ir availa	nformatio able		o inform ailable	ation	No info		-	
\\/a+==	No		information		nformatio		o inform	ation	No info			
Water-a	aır ava	ailable		availa	able	av	ailable		available	9	-	



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Trading name:			SODIUM THIOSULFATE, 2% SOLUTION				
Produc	t code:	NT2-OT-X**	Date of	f compilation:	05 July 2019	Version:	3
Soil-air	No availa	information able	No information available	No information available	No information available	-	
12.5	Results of	PBT and vPvB asses	ssment				
	Not applic	able.					
12.6	Other adv	erse effects					
12.0		r relevant information	on available.				
SECTIO	N 13. Disp	osal consideration	S				
13.1	Waste tr	eatment methods					
10.1.1							
13.1.1.		/Packaging disposa		vrized by the Minic	try of Environmental	and Naturo	
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.						
	444						
13.1.2.		odes/waste designa					
	15 01 10 substan	5 5	ontains residual h	azardous substanc	es or is contaminate	d with hazardo	ous
13.1.3.	\Masta tr	eatment – relevant	information				
13.1.3.		mation available	illomation.				
13.1.4.	Sewage	disposal – relevant	information:				
	Waste m	nust not be dispose	d of into the sewa	ige system.			
13.1.5.		sposal recommend				1 11	
	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.	5. Relevant Community provisions:						
	Disposa	must be made acc	ording to official r	regulations.			
SECTIO	N 14 TRΔN	ISPORT INFORMA	TION				
310110		ng/shipment by ro					
UN num		<i>J.</i> 1		o transport regula	tions		
UN proper shipping name:			-				



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Trading name:		SODIUM THIOSULFATE,	2% SOLUTION		
Product code:	NT2-OT-X**	Date of compilation:	05 July 2019	Version:	3

Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
Transporting/shipment by sea (IN UN number:	MDG) Not subject to transport regulations
UN number:	Not subject to transport regulations
UN number: UN proper shipping name:	Not subject to transport regulations -
UN number: UN proper shipping name: Transport hazard class(es):	Not subject to transport regulations
UN number: UN proper shipping name: Transport hazard class(es): Packing group:	Not subject to transport regulations
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:	Not subject to transport regulations
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transport in bulk according to Annex II	Not subject to transport regulations - - - - - - -
UN number: 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:	Not subject to transport regulations - - - - - - -
UN number: 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	Not subject to transport regulations AO-TI/IATA-DGR)
UN number: 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 UN number:	Not subject to transport regulations Not subject to transport regulations
UN number: 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 UN number: UN proper shipping name:	Not subject to transport regulations Not subject to transport regulations Not subject to transport regulations -
UN number: 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 UN number: UN proper shipping name: Transport hazard class(es):	Not subject to transport regulations Not subject to transport regulations Not subject to transport regulations
UN number: 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 UN number: UN proper shipping name: Transport hazard class(es): Packing group:	Not subject to transport regulations Not subject to transport regulations Not subject to transport regulations



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Trading name:		SODIUM THIOSULFATE,	2% SOLUTION		
Product code:	NT2-OT-X**	Date of compilation:	05 July 2019	Version:	3

15.1	ON 15. Regulatory information Safety, health and environ	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:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19				
	November 2008 on waste and repealing certain Directives Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-quideline)					
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2	Chemical safety assessme	ent				
	None					

SECTIO	SECTION 16. Other information				
16.1	Indication of changes:	-			
		PBT	Stable, bioaccumulative and toxic		
		vPvB	Strongly stable and strongly bioaccumulative.		
16.2	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%		
		LC ₅₀	Lethal concentration, 50%		
		TCOJ	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			



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Trading name:		SODIUM THIOSULFATE,	2% SOLUTION		
Product code:	NT2-OT-X**	Date of compilation:	05 July 2019	Version:	3

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classific	cation	Classification procedure	
-		-	
16.5.	Relevant H statements (numl	oer and full text)	
	H: -	-	
16.6.	Training advice:	-	
16.7	From the control of t	** "X" in the product code marks different volumes (different packagings of the product)	
		We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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Trading name:		FAST GREEN F.C.F. CONT	AST GREEN F.C.F. CONTRAST REAGENT		
Product code:	FGKR-OT-X**	Date of compilation:	27 June 2019	Version:	3

SECTI	ON 1: Identification of t	ON 1: Identification of the substance/mixture and of the company/undertaking					
1.1	Product identifier						
	Trading name:	FAST GREEN	N F.C.F. CC	ONTRAST REAGENT			
	Chemical name:	-					
	Catalogue number:	FGKR-OT-X	**				
1.2	Relevant identified use	es of the subst	tance or n	nixture and uses advised against			
	Uses:		Counter	stain used with Grocott staining kit.			
	Uses advised against:		Only the	e identified uses are advised.			
	Reason why uses advis	eason 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 shee	t			
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997				
	Telefax.:		+385 1 2404039				
	e-mail of competent p	erson:	msds@biognost.hr				
	National contact:		-				
1.4	Emergency telephone	number					
	National Protection an	d 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 Regu	ulation (EC) No 1	272/2008 (CLP)			
	Hazard class and catego	ory code:	Hazard statements*:			
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	SECTION 16			
2.2	Label elements					
	Product identification:	FAST GREEN F.	C.F. CONTRAST REAGENT			
	Identification number: -					
	Authorization number:	-				
	Hazard pictograms:	-				



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT				
Product code:	FGKR-OT-X**	Date of compilation:	27 June 2019	Version:	3

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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)	
_	-	-	Contains no hazardous substances	-	

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



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT				
Product code:	FGKR-OT-X**	Date of compilation:	27 June 2019	Version:	3

4.3	Indication of any immediate medical attention and special treatment needed
	-

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media	Extinguishing media			
	Suitable extinguishing media: water spray, dry p	owder, CO ₂ or alcohol resistant foam			
	Unsuitable extinguishing media: Water with full jet				
5.2	Special hazards arising from the substance or mixture	Special hazards arising from the substance or mixture			
	Hazardous combustion products: no information av	ailable			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air brea	thing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with water spray. Collect contaminate the environment with extinguishing med	3 3 . ,			

SECTIO	ON 6. Accidental release measu	ıres			
6.1	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures: Mark the area using proper signs.				
6.1.2.	For emergency responders:				
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3	Methods and material for cont	ainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT				
Product code:	FGKR-OT-X**	Date of compilation:	27 June 2019	Version:	3

6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal information.			

SECTIO	ON 7. Handling and storage			
7.1	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.	
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
	Other measures:		Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.			
7.2	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.	
	Packaging materials:	Manufactu	ırer's original packaging.	
	Requirements for storage rooms and vessels:	Keep away	r from food and drink. Keep the containers sed.	
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper i.	
	Further information on storage conditions:	Do not place the unused material in the storage roor 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



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Trading name:	FAST GREEN F.C.F. CONTRAST REAGENT					
Product code:	FGKR-OT-X**	Date of compilation:	27 June 2019	Version:	3	

8.1 Control parameters								
Substance			S No	1	•	exposure limit term values		Biological limit values
			þ	ppm mg/m³				
-			-		-	-	-	
				•				
Substance name:	-							
EC No:	-	CAS No	: -					
DNEL	·		·					
				Ind	lustrial			
Route of	Acı	ıte	Acut	te		Chronic		Chronic
exposure:	effect	local	effect sys	stemic		effect local		effect systemic
Oral	-		-		-			-
Inhalation	-		-		-			-
Dermal	-		-		<u> </u>			-
Critical physical par	rameters: s	solubility,	flammabilit					
					nsumer			
Route of		cute	Acut		Chronic			Chronic
exposure:	effec	t local	effect sys	stemic	effect local			effect systemic
Oral	-		-		-			-
Inhalation Dermal	-		_		-			-
PNEC			<u> </u>					
Environmental prot	tection tar	net			PNEC			
Fresh water	tection tary	get			no information available			
Freshwater sedime	nts							
Marine water	1103				no information available no information available			
Marine sediments				-		nation available		
Food chain						nation available		
Microorganisms in	sewage tr	eatment				nation available		
Soil (agricultural)	sewage an	Catiment				nation available		
Air						nation available		
All					110 11110111	ation available		
8.2 Exposi	ure contro	ls						
8.2.1. Appro	priate eng	ineering	controls					



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Trading name:	F.	FAST GREEN F.C.F. CONTRAST REAGENT						
Product code:	FGKR-OT-X**	Date of compilation:	27 June 2019	Version:	3			

	Substance/mixture related measure prevent exposure during identific		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 prev exposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	xposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of low levels of concentration in air; protective gas mask that covers tentire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
	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:	footwe entire imperr	ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls	}			
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		
	Structural measures to prevent exposure:	Use mo	odern equipment.		
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.		
	Technical measures to prevent exposure:	See Se	ction 6		

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties



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Trading name:					
Product code:	FGKR-OT-X**	Date of compilation:	27 June 2019	Version:	3

		Value	Method
	Physical state:	liquid	No information available
	Colour:	green	No information available
	Odour:	No information available	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
9.2	Other information		

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



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Trading name:	FA				
Product code:	FGKR-OT-X**	Date of compilation:	27 June 2019	Version:	3

11.1	Information	nformation on toxicological effects										
	Acute toxicit											
Route exposu	of	Method	Species	Do	ose LD ₅₀ /LC ₅₀ o	r	Exposure tin	ne	Results			
Oral:		No information available	-		information lable		-		-			
Derma	·	No information available	-		information lable		-		-			
Inhalat	ion.	No information available	-		information lable		-		-			
	Specific targ	et organ toxicity -	- single expos	sure (S	TOT SE):							
		Specific	effects		Targ	et orga	n		Note			
Oral:		No information av	ailable		No informati	on avail	able	-				
Derma	l:	No information av	ailable	No information available			able	_				
Inhalat	ion:	No information av	ailable	No information available -			_					
	Aspiration h		No	inforr	nation availab	le.						
	<u> </u>	Exposure t	ime	Spec	ies Evalı	uation	Method		Note			
Skin corrosi	on/irritation:	-	-		-		-	-				
Serious damag	s eye je/irritation	-	-		-		-	-				
	Sensitization	1										
Skin se	ensitization:	No infor	mation availa	ble.								
Respira	atory sensitizat	ion: No infor	mation availa									
	Symptoms r	elated to the phys	ical, chemica	l and t	oxicological cl	naracter	istics					
Oral ex	(posure:	Harmful if swall	owed.									
	l exposure:	Harmful if abso	rbed through	n skin.	May cause ski	n irritati	on.					
Derma					iratam, tract ir	ritation						
	ion exposure:	Harmful if inhal	ed. May caus	se resp	iratory tract in	ntation.						



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Repeate	ed dose	toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No i availa	information ble	No information available	No information available	No information available	No informatio available	on -
Subacute dermal	No i availa	information ble	No information available	No information available	No information available	No informatio available	n -
Subacute inhalation	No i	information ble	No information available	No information available	No information available	No informatio available	n -
Subchronic oral	No i availa	information ble	No information available	No information available	No information available	No informatio available	n -
Subchronic dermal	No i availa	information ble	No information available	No information available	No information available	No informatio available	on -
Subchronic inhalation	No i availa	information ble	No information available	No information available	No information available	No informatio available	n -
Chronic oral	No i availa	information ble	No information available	No information available	No information available	No informatio available	on -
Chronic dermal	No i availa	information ble	No information available	No information available	No information available	No informatio available	on -
Chronic inhalation			No information available	No information available	No information available	No informatio available	on -
Specific	target	organ toxicit		xposure (STOT F			_
<u> </u>			Specific effec	ts	Target or		Note
Subacute oral			tion available		No information		-
Subacute dermal No informa			tion available		No information available		-

Specific target organ toxicity – repeated exposure (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	-				



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Chron	ic inhalation	No information available	No information available -					
	CMR effects (c	carcinogenicity; mutagenicit	y; reproductive toxicity)					
	Carcinogenicit	:y:	Based on available data, the classification criteria are not met.					
	Mutagenicity i	in vitro:	Based on available data, the classification criteria are not met.					
	Genotoxicity:		Based on available data, the classification criteria are not met.					
	Mutagenicity i	in vivo:	Based on available data, the classification criteria are not met.					
	Germ cell mut	agenicity:	Based on available data, the classification criteria are not met.					
	Reproductive	toxicity:	Based on available data, the classification criteria are not met.					
	Summary of properties:	evaluation of the CN	MR Based on available data, the classification criteria are not met.					
11.2	Practical experiences:							
	Classification of	observations:	No information available					
	Other observations:		No information available					
11.3	General notes:	:						
	-							

SECTION 12. Ecologi	SECTION 12. Ecological information							
12.1 Toxicity								
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-		
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-		
Algae/aquatic plants	IC ₅₀	4 days	No information available	No information available	No information available	-		
Other organisms	-	_	-	-	-	-		
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-		



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		-								Page	11 of 1	6
Tradin	g name:			F	FAST	GREEN F.C.F.	CON	ITRAST R	EAGENT	·····•		
Produ	ct code:	F	GKR-OT-X	**	Da	ate of compila	tion:	27 Jur	e 2019	Ver	rsion:	3
Crustac	cea:		EC ₅₀	48 hours		No information available		ormation ilable	No informatio available	n	-	
Algae/a	aquatic pl	ants	IC ₅₀	72 hours		No information available		ormation ilable	No informatio available	n	-	
Other o	organisms		-	-	-		-		-		-	
12.2	Persiste	nce a	nd degradal	oilitv								
	Abiotic			,								
			gradation h	alf-lives		Method		Evaluation	1		Note	
Marine	water		nformation a			information lable		informatior ilable	-			
Fresh w	vater	No ir	nformation a	available		information lable		informatior ilable	-			
Air No information available			information lable	No information available		-	-					
Soil		No ir	nformation a	available		information lable	No information available		-	-		
	Biodegr	adatio	nn .									
% De	egradation		Time (davs)		Method	**************************************	Evaluation	1		Note	
	ormation			formation	No information available No information available		information	ı No	inforn			
12.3	Bioaccu	mulat	ive potentia	ıl								
			er partition o		loa K	ow)						
Valu			ntration	рН	°C	Method		Evalua	ation		Note	
-	-			-	-	-		-		-		
	Piocos	· ont	tion factor (BCE)								
1	/alue	.ciilld	Speci			Method		Evaluation	on .		Note	
	ormation	N av		formation		No information N		No information available				



Tradin	g name:			FAST GR	EEN	F.C.F. C	ONTRA	AST R	EAG	ENT		
	ct code:		KR-OT-X**	Date	of co	mpilatio	n:	27 Jur	ne 20	19	Version:	3
	Chronic	c ecotox	icity			-			1			
	Value		Dose	Exposure time	Sp	ecies	Meth	nod	E۱	/aluation	Note	9
Chronic	toxicity	on fish	LC ₅₀	No information available	No infor avail	mation able	No inform availab			ormation ilable	-	
	toxicity ea (<i>Daph</i>		EC ₅₀	No information available	No infor avail	mation able	No inform availab			ormation ilable	-	
12.4	Mobilit	y in soil										
	-		icted distributi	on in environme	ental (compartr	ments:					
	No info	rmation	available									
	Surface	e tension	:	·								
	Value °		°C	Concentration		n Method		od			Note	
	No informa availab	ation	No information available	No informatio available		on No information available		n	-			
	Adsorn	ation / de	esorption									
			pefficient									
Transpo	ort	-	s constant	log Kow		Evaporation rate		Method		od	Note	
Soil-wa	ter av	o ⁄ailable	information	No informatio available		No information available		No information available		nation	-	
Water-air No available		information	No informatio available		o inform vailable	ation	No information available		nation	-		
Soil-air	N av	o ⁄ailable	information	No informatio available		o informa vailable	ation	No ir availa	_	nation	-	
12.5	Results	of PBT a	and vPvB asses	ssment								
		plicable.										
								_				
12.6		adverse (



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SECTION	SECTION 13. Disposal considerations						
13.1	Waste treatment methods						
13.1.1.	Product/Packaging disposal:						
	Submit for disposal to the leg Protection.	al person authorized by the Ministry of Environmental and Nature					
13.1.2.	Waste codes/waste designation	ons according to Law:					
	15 01 10*: Packaging that consubstances	ntains residual hazardous substances or is contaminated with hazardous					
13.1.3.	Waste treatment – relevant in	formation:					
	No information available						
13.1.4.	Sewage disposal – relevant in	formation:					
	Waste must not be disposed						
13.1.5.	Other disposal recommendati	ions:					
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collect authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Subthe packaging to the collectors authorized by the ministry in charge.						
13.1.6.	Relevant Community provisio	ns:					
	Disposal must be made accor	cording to official regulations.					
SECTION	I 14 TRANSPORT INFORMATI	ON					
	Transporting/shipment by road	(ADR)					
UN numb	oer:	Not subject to transport regulations					
UN prop	er shipping name:	-					
Transpor	t hazard class(es):	-					
Packing o	group:	-					
Environm	nentally hazardous:	-					
Special p	recautions for user:	-					
	Transporting/shipment by rail (I	RID)					
UN numb	oer:	Not subject to transport regulations					
UN prop	er shipping name:	-					
Transpor	t hazard class(es):	-					
Packing o	group:	-					



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Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IM	/IDG)
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 (ICA	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTI	TION 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:	-				



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	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	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:	-			
		PBT	Stable, bioaccumulative and toxic		
		vPvB	Strongly stable and strongly bioaccumulative.		
16.2	Abbreviations and acronyms:	LD ₅₀	Lethal dose, 50%		
		LC ₅₀	Lethal concentration, 50%		
		TCOJ	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure us 1272/2008 (CLP)	ed to derive th	e classification for mixture according to Regulation (EC)		
Classifi	cation	Classification pr	ocedure		
-					
16.5.	Relevant H statements (numbe	r and full text)			
	H:	_			
16.6.	Training advice: -				



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		** "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
-