



Page 1 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5	

SECTI	ON 1 IDENTIFICATION (OF THE SUE	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier	Product identifier				
	Trading name:	POTASSIL	POTASSIUM PERMANGANATE, 0.5% SOLUTION			
	Chemical name:	-	-			
	Catalogue number:	KP05-OT-	KP05-OT-X**			
1.2.	Relevant identified use	es of the sub	of the substance or mixture and uses advised against			
	Uses:		For use wi	th special staining kits.		
	Uses advised against:		Only the i	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 Product Medical Devices and there is no reason to use it for other pur			
1.3.	Details of the supplier	of the safet	y data sheet			
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska	59, Zagreb		
	Telephone number:		+385 1 24099	97		
	Fax no.:		+385 1 24040	39		
	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:	Medical information:		+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2 HAZARDS INFORMATION					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)					
	Hazard class and category	code:	Hazard statements*:			
	Aquatic Chronic 3		H412			
2.1.2.	Additional information					
	-					
*For ful	I text of Hazard- and EU Hazard-sta	tements: see S	ection 16			
2.2.	Classification according to EC Dire	ective Nr. 1272/	2008 CLP)			
	Product identification:	POTASSIUM F	PERMANGANATE, 0.5% SOLUTION			
	Identification number:	-				
	Authorization no.: -					
	Hazard pictograms: -					
	Signal word:	-				



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

Page 2 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5	

	Hazard statements:	H412 Harmful to aquatic life with long lasting effects.		
	Precautionary statements:	P273 Avoid release to the environment P501 Dispose of contents/container in accordance with local regulations.		
	Further information:	-		
2.3.	Other hazards			
	-			

SECTION 3 CO	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS						
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
7722-64-7/ 231-760-3/ 025-002-00-9	-	<1%	potassium permanganate	Oxid. Solid 2; H272 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410			

SECTIO	TION 4 FIRST AID MEASURES					
4.1.	Description of first aid measures					
	General notes:		-			
	Following inhalation:		Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.			
	Following skin contact: Following eye contact:		Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.			
			Rinse out with plenty of water with the eyelid held wide open using 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:	Inhalation of large amounts of vapors in inadequately ventilated permay 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:	Direct eye contact may cause slight to moderate irritation, lacrimation an burning sensation.				



Page 3 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5	

	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 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, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. 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 (s	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.			



Page 4 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5	

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	
	-	

SECTION	ON 7 HANDLING AN STORAGE				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation	on: Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	-			
7.1.2.	2. Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and befo				
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:	-			



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

Page 5 of 16

Trading name:)N		
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION								
8.1. Control parameters								
Substance		CAS I	No	values/short	exposure limit term values	Biological limit values		
				ppm	mg/m ³	N 1 6 11 11 11		
Potassium permanga	nate	7722-6	54-7	-	5	No information available		
Substance								
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chron effect lo			
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
Critical physical parar	meters: s	solubility, fla	ımmabilit	ty, corrosivity:	-			
				Consumer				
Route of	, A	Acute		Acute	Chron	nic Chronic		
exposure:	effe	ect local	effe	ect systemic	effect lo	ocal effect systemic		
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
PNEC								
Environmental protect	tion tar	get		PNEC				
Fresh water				No infor	No information available			
Freshwater sediments	S			No infor	No information available			
Marine water				No infor	No information available			
Marine sediments				No infor	No information available			
Food chain	Food chain				No information available			
Microorganisms in sewage treatment				No infor	No information available			
Soil (agricultural)				No infor	No information available			
Air	Air					le		
8.2. Exposure	e contro	ls						



Page 6 of 16

Trading name:	РОТА	SSIUM PERMANGANA	ATE, 0.5% SOLUTION		
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5	

8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent exposure during identified uses: Structural measures to prevent exposure:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
			No information available		
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	ment			
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 and 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 prevent exposure:		See Section 6		

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



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

Page 7 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION			
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5

Odor:	odourless	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:			



Page 8 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version:	5

Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposur	e time	Results
Oral exposure:	No information available	_	No information available	-		-
Dermal exposure:	No information available	-	No information available	-		-
Inhalation exposure:	No information available	-	No information available	-	-	
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	ormation available			
T'4 - 4'						
Irritation ai	nd corrosion		·			N
Chin imitation.	Exposure time	Specie	s Evaluation	Method		Note
Skin irritation:		rabbit	-	-	-	
Eye irritation:	-	rabbit	-	-	-	
Sensitizatio	on					
Dermal exposure:	No information availa	able				
Inhalation	No information availa	able				
exposure:						
Symptoms	related to the physica	l, chemical and	d toxicological chara	octeristics		
Oral exposure:	Swallowing may constraints sensation; higher line case of vomiting	ause irritation evels of conce g, aspiration ca	of mucosa, tingling entration may cause auses coughing, diff	sensation ir nausea, abo	dominal p	pain and vomiting.
Dermal exposure:	Slight irritation. Af	concentration may cause suffocation. 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	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.				
Eye exposure:	Direct eye contact sensation.	Direct eye contact may cause slight to moderate irritation, lacrimation and burning				



Page 9 of 16

Trading name:	РОТА	POTASSIUM PERMANGANATE, 0.5% SOLUTION				
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version:	5	

кереате	a dose to	oxicity (sub	acute, subchro	onic, chroni	C)	***			
	D	ose	Exposure time	Species		Method	Evaluatio	n	Note
Subacute oral	No inf availabl	formation e	No information available	No informati available	on	No information available	No informati available		-
Subacute dermal	No inf availabl	formation e	No information available	No informati available	on	No information available	No informati available		-
Subacute inhalation	No inf availabl	formation e	No information available	No informati available	on	No information available	No informati available		-
Subchronic oral	No information available		No information available	No informati available	on	No information available	No informati available		-
Subchronic dermal	No information available		No information available	No informati available	on	No information available	No informati available		-
Subchronic inhalation	No inf availabl	formation e	No information available	No informati available	on	No information available	No informati available		-
Chronic oral	No inf availabl	formation e	No information available	No informati available	on	No information available	No informati available		-
Chronic dermal	No inf availabl	formation e	No information available	No informati available	on	No information available	No informati available	_	-
Chronic inhalation	No inf availabl	formation e	No information available	No informati available	on	No information available	No informati available		-
Specific	target or		y – repeated e	xposure (S	TOT R				
			pecific effects			Target orga			Note
Subacute oral			tion available			nformation avai		-	
			tion available			nformation avai		-	
Subacute inhalat			tion available			nformation avai		-	
Subchronic oral	<u>:</u>		tion available			nformation avai		-	
Subchronic derm			tion available			nformation avai		-	
Subchronic inhalation No inform Chronic oral No inform			tion available		NO I	nformation avai	iabie	-	



Page 10 of 16

Trading name:		OTACCIUM DEDMANICANIA	TE 0 E% COLLIT	ION
Trading name:	ľ	POTASSIUM PERMANGANA	11E, 0.5% SOLU I	ION
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5

Chroni	ic dermal	No informa	tion available	9	No information available	-		
Chroni	Chronic inhalation No information			9	No information available	-		
	CMR effects	(carcinogenicity	, mutagenici	ty, repro	ductive toxicity)			
	Carcinogenicity: Mutagenicity <i>in-vitro</i> : Genotoxicity:		Current	studies o	on test animals did not indicate ca	rcinogenic effects.		
			Current	Current in vitro tests did not indicate mutagenic effects.				
			No infor	mation	available			
	Mutagenicity	Current	Current in vivo tests did not indicate mutagenic effects.					
	Germ cell mu	No information available						
	Reproductive toxicity:		No toxicity on reproductive organs was determined in reproductive organs.					
	Summary of	evaluation of th	ne CMR prop	erties:	-			
11.2.	Practical expe	eriences:						
	Remarks rele	vant for classifi	cation:	No info	ormation available			
	Other remarks:			No info	ormation available			
11.3.	General note	S:						
	-							

SECTION 12 ECOLOGICAL INFORMATION:

12.1.

Toxicity

Exposure Acute toxicity Method Dose **Species** Evaluation Note time

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



Page 11 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION					
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: !	5	

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		
RION	aaraa	dation
Dioa	carac	aatioii

% 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	Method	Evaluation	Note
No information available				



Page 12 of 16

Tradin	g nan	ne:		РО	TASSIUM	1 PEF	RMANG	ANATE	, 0.5% S	OLUT	ION	
Produ	ct coc	le: ŀ	<p05-ot-x**< td=""><td></td><td>Date</td><td>of co</td><td>ompilati</td><td>on: 0</td><td>3.06.201</td><td>9.</td><td>Versic</td><td>n: 5</td></p05-ot-x**<>		Date	of co	ompilati	on: 0	3.06.201	9.	Versic	n: 5
	Chro	onic ecot	oxicity									
	Val	lue	Dose	E	xposure time	Sp	ecies	Meth	nod	Evalu	ıation	Note
Chronic	c toxic	ity on fis	sh LC ₅₀		ormation ailable		rmation able	No inform availab	ation	lo infor vailable	mation	-
Chronic		•	EC ₅₀		ormation nilable	_	rmation able	No inform availab	ation	lo infor vailable	mation	-
12.4.	Mot	oility in s	oil									
		······································	edicted distributi	ion ir	ı environme	ental	compart	ments:				
	No information available											
	Surface tension:		1				1					
		/alue	°C		Concentration Method		od		No	ote		
		rmation lable	No information available	No information available		No information available		-	-			
	Ads	-	/ desorption								* * * * * * * * * * * * * * * * * * *	
Transp	ort		O coefficient ry's constant		log Kow Evaporati		ivaporati	on rate Method			Note	
Soil-wa	ater	No availabl	information le		informatio ilable		lo inform vailable	nation	No info availabl		n _	
Water-	air	No availabl	information le	_	informatio ilable		lo inforn vailable	nation	No info availabl		n	
Soil-air	-	No availabl	information le		informatio ilable		lo inform vailable	nation	No info availabl		n _	
12.5.	Resu	ults of PE	BT and vPvB asses	ssme	nt							
	No i	nformat	ion available									
12.6.	Othe	er advers	se effects									
	No i	nformati	ion available									



Page 13 of 16

Trading name:	POTA	SSIUM PERMANGANATE, 0.5% SOLUTION			
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5	

13.1.	Waste treatment method	4c			
13.1.	waste treatment method	72			
13.1.1.	Product/Packaging dispo	osal:			
	Submit for disposal to the Protection.	ne legal person authorized by the Ministry of Environmental and Nature			
13.1.2. Waste codes/waste designations according to Law:					
	No information available				
13.1.3.	Waste treatment – releva	ant information:			
	No information available				
13.1.4.	Sewage disposal – relevant information:				
	Waste must not be disposed of into the sewage system.				
13.1.5.	.5. Other disposal recommendations:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collector authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Subm the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places whe ignition may occur.				
13.1.6.	Relevant Community pro	ovisions:			
	-				
SECTIO	N 14 TRANSPORT INFORM	MATION			
	Transporting/shipment by	road (ADR)			
UN num	ber:	3082			
UN prop	per shipping name:	Environmentally hazardous substance, liquid, n.o.s. (potassium permanganate)			
Transpo	rt hazard class(es):	9			
Packing group:		III			
Environmentally hazardous:		-			
Special p	precautions for user:	-			
	Transporting/shipment by	rail (RID)			
		3082			
UN num	ber:	3082			



Page 14 of 16

Trading name:	POTASSIUM PERMANGANATE, 0.5% SOLUTION			
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5

T	0				
Transport hazard class(es)	9				
Packing group:	III				
Environmentally hazardou	: -				
Special precautions for us	r: -				
Inland waterway	ransport (ADN)				
UN number:	3082				
UN proper shipping name	Environmentally hazardous si permanganate)	ubstance, liquid, n.o.s. (potassium			
Transport hazard class(es)	9				
Packing group:	III				
Environmentally hazardou	: -				
Special precautions for us	r: -				
Transporting/ship	ment by sea (IMDG)				
UN number:	3082				
UN proper shipping name	Environmentally hazardous si permanganate)	ubstance, liquid, n.o.s. (potassium			
Transport hazard class(es)	9				
Packing group:	Ш	Ш			
Environmentally hazardou	: -				
Special precautions for us	r: -				
Transporting/ship	ment by air (ICAO-TI/IATA-DGR)				
UN number:	3082				
UN proper shipping name	Environmentally hazardous si permanganate)	ubstance, liquid, n.o.s. (potassium			
Transport hazard class(es)	9				
Packing group:	III				
Environmentally hazardou	: -				
Special precautions for us	r: -				
	'				
Further information:	combination packagings containing a net or less for liquids or having a net mass per olids, are not subject to classification.				

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



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

Page 15 of 16

Trading name:	РОТА	SSIUM PERMANGANA)N		
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version:	5

Restr	ictions:	-
Othe	r 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
Inforr guide		13/EC about limitation of emissions of volatile organic compounds (VOC-
Natio	onal 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. Chem	nical safety assessment	
None	2	

SECTIO	N 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.	16.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classification		Classification procedure		
_	-			
16.5.	16.5. Relevant H statements (number and full text)			



Page 16 of 16

Trading name:	P	OTASSIUM PERMANGANA	SIUM PERMANGANATE, 0.5% SOLUTION		
Product code:	KP05-OT-X**	Date of compilation:	03.06.2019.	Version: 5	

	H: H272 H302 H400 H410	May intensify fire; oxidiser. Harmful if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
16.6.	Training advice:	-
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX:

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



Page 1 of 16

Trading name:	SULFURIC ACID, 0.5% SOLUTION			
Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version: 3

SECTI	ON 1 IDENTIFICATION	OF THE SUE	STANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	SULFURIC	SULFURIC ACID, 0.5% SOLUTION			
	Chemical name:	-				
	Catalogue number:	SK05-OT-X**				
1.2.	Relevant identified uses of the substance or mixture and uses advised against					
	Uses: For use with special staining kits.					
	Uses advised against:		Only the i	dentified uses are advised.		
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic against: medical device, registered at the Agency for Medicinal Product Medical 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			
	Telephone number:		+385 1 2409997			
	Fax no.:	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 ar	nd Rescue D	irectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:	Other information:		-		

SECTIO	SECTION 2 HAZARDS INFORMATION					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)					
	Hazard class and category	code:	Hazard statements*:			
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-sta	tements: see S	ection 16			
2.2.	Classification according to EC Dire	ective Nr. 1272	(2008 CLP)			
	Product identification:	SULFURIC AC	ID, 0.5% SOLUTION			
	Identification number:	-				
	Authorization no.: -					
	Hazard pictograms: -					
	Signal word:	-				



Page 2 of 16

Trading name:	SULFURIC ACID, 0.5% SOLUTION			
Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version: 3

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

SECTION 3 CO	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS					
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
7664-93-9 / 231-639-5 / 016-020-00-8	-	<1%	sulfuric acid	Skin Corr. 1A; H314		

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



Page 3 of 16

Т	rading name:	SULFURIC ACID, 0.5% SOLUTION			
Р	Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version: 3

	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 immedi	ate 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					
	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:	For emergency responders:				
	Wear protective equipment (s	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.					



Page 4 of 16

Trading name:	SULFURIC ACID, 0.5% SOLUTION				
Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version:	3

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 incompatibilities			
	Technical measures and storage conditions:	venti	in tightly closed and upright set containers in a well lated storage rooms, and away from sources of heat, ght, and other incompatible substances.	
	Packaging materials:	Man	ufacturer's original packaging.	
	Requirements for storage rooms and vessels:		away from food and drink. Keep the containers ly closed.	
	Advices for storage equipment:	be re	storage must be made of hard material; floors must esistant to chemicals. There must be no drain that tly leads into sewage system. Secure proper lation.	
	Further information on storage conditions:	and chen	ot place the unused material in the storage room do not use empty containers for storing other nicals. Do not store with incompatible materials (see on 9).	
7.3.	Specific end use(s)			
	Recommendations:	_		
	Industrial sector specific solutions:	-		



Page 5 of 16

Trading name:		SULFURIC ACID, 0.5% SOLUTION					
Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version:	3		

SECTION 8 EXPOSUI	SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION						
8.1. Control para	meters						
Substance				Occupational values/short	•	Biological limit values	
				ppm	mg/m ³		
-		-		-	-	No information available	
Substance - name:							
EC No: -		CAS No:	-				
DNEL							
				Industrial	_		
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chro effect		
Oral		-	,	-	-		
Inhalation	-		-		-	-	
Dermal					-	-	
Critical physical parar	neters: s	solubility, fla	mmabilit	y, corrosivity:	-		
				Consumer	i		
Route of	A	Acute		Acute	Chro	nic Chronic	
exposure:	effe	ect local	effe	ct systemic	effect	local effect systemic	
Oral	-		-		-	-	
Inhalation	-		-		-	-	
Dermal	-		-		-	-	
PNEC							
Environmental protec	tion tar	get		PNEC			
Fresh water					No information available		
Freshwater sediments	5			No infor	No information available		
Marine water					No information available		
Marine sediments				No information available			
Food chain				mation availab			
Microorganisms in sewage treatment				mation availab			
Soil (agricultural)				No information available			
Air				No infor	mation availab	ole	
8.2. Exposure	contro	ls					



Page 6 of 16

Trading name:	SULFURIC ACID, 0.5% SOLUTION				
Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version:	3

8.2.1.	Engineering measures				
	Substance/mixture related measures to prevent expo		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to preexposure:	event	No information available		
	Organisational measures to prevent exposure:		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	ment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection				
	Hand protection:		tive gloves must be according to the EU Directive 2016/425/EEC and and 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 of	controls			
	Substance/mixture related measures to prevent expo		See Section 6		
	Structural measures to preexposure:	event	Use modern equipment.		
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to 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:	transparent	No information available			



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

Page 7 of 16

Trading name:		SULFURIC ACID, 0.5% SOLUTION	
Product code:	SK05-OT-X**	Date of compilation: 03.06.2019.	Version: 3

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:				



Page 8 of 16

Trading name:		SULFURIC ACID, 0.5% SOLUTION				
Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version:	3	

Route of exposure:	Method	Species	Effective dose LD_{50}/LC_{50} or $ATE_{mixture}$	Exposui	re 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 – sir	ngle exposure (STOT SE):				
	Specifi	c effects	Target	organ		Note	
Oral exposure:	No information a	available	No informati	on available	-		
Dermal exposure:	No information a	available	No informati	on available	-		
Inhalation exposure:	No information a	available	No informati	on available	-		
Respiratory	irritation:	No infor	rmation available				
Irritation an							
	Exposure time	Species	Evaluation	Method		Note	
Skin irritation:	-	rabbit	-	-	-		
Eye irritation:	-	rabbit	-	-	-		
Sensitizatio	n						
Dermal exposure:	No information availa	able					
Inhalation exposure:	No information availa	able					
Symptoms	related to the physica	l, chemical and	toxicological chara	acteristics			
Oral exposure: Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.							
Dermal exposure:	-	•	ure, resorption effe ngling sensation o		likely. Lo	ng-term exposure	
Inhalation exposure:		Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.					
Eye exposure:	Direct eye contact sensation.	may cause slig	ht to moderate irri	tation, lacrir	nation ar	nd burning	



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

Page 9 of 16

Trading name:		SULFURIC ACID, 0.5	% SOLUTION		
Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version:	3

кереац	ed dose toxicity (sub	acute, subchro	onic, chroni	ic)	:		1
	Dose	Exposure time	Species		Method	Evaluatio	n Note
Subacute oral	No information available	No information available	No informati available	ion	No information available	No information available	on -
Subacute dermal	No information available	No information available	No informati available	ion	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	on	No information available	No information available	on -
Subchronic inhalation	No information available	No information available	No informati available	on	No information available	No information	on -
Chronic oral	No information available	No information available	No informati available		No information available	No information	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 information available	on -
Specific	target organ toxici	<u> </u>	xposure (S	TOT F			N. .
Subacute oral		Specific effects ation available		Na:	Target orga nformation avai		Note -
Subacute dermal		ation available					
		ation available		No information available No information available			_
		ation available			nformation avai		_
Subchronic derm		ation available			nformation avai		-
Subchronic inhal	ation No informa	ation available		No i	nformation avai	lable	-
Chronic oral	Chronic oral No information			No i	nformation avai	lable	_



Page 10 of 16

				. a.g. = 0 0 . = 0
Trading name:		SULFURIC ACID, 0.59	% SOLUTION	
Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version: 3

Chron	Chronic dermal No information		tion available		No information available	-		
Chron	Chronic inhalation No informati				No information available	-		
	CMR effects	(carcinogenicity	, mutagenicit	y, reprod	uctive toxicity)			
	Carcinogenic	city:	Current s	studies or	test animals did not indicate ca	arcinogenic effects.		
	Mutagenicity	ı in-vitro:	Current	Current in vitro tests did not indicate mutagenic effects.				
	Genotoxicity: Mutagenicity <i>in-vivo</i> :		No infor	mation av	ailable			
			Current	Current in vivo tests did not indicate mutagenic effects.				
	Germ cell mu	No information available						
	Reproductive	No toxio organs.	city on r	eproductive organs was deter	mined in reproductive			
	Summary of	evaluation of th	ne CMR prope	erties:	-			
11.2.	Practical exp	eriences:						
	Remarks rele	vant for classifi	cation:	No infor	mation available			
	Other remark	ks:		No infor	mation available			
11.3.	General note	PS:						
	-							

SECTION 12 ECOLOGICAL INFORMATION:

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		



Page 11 of 16

			9
Trading name:		SULFURIC ACID, 0.5% SOLUTION	
Product code:	SK05-OT-X**	Date of compilation: 03.06.2019.	Version: 3

Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	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		1
RION	Lααra	dation
DIOU	cuia	uation

% 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	Method	Evaluation	Note
No information available				



Page 12 of 16

Trading	name:			SU	LFURI	C ACID,	0.5%	OLUT	ION		
Product	code:	SK0	5-OT-X**	Date	e of c	ompilati	ion: 03.06.2019.		Versio	Version: 3	
(Chronic	ecotoxi	city	:	1		:		:		
	Value		Dose	Exposure time	Sį	oecies	Meth	nod	Evalua	tion	Note
Chronic t	oxicity o	n fish	LC ₅₀	No information available		rmation lable	No inform availab		No inform available	nation	-
	oxicity o (<i>Daphn</i>		EC ₅₀	No information available		rmation lable	No inform availab		No inform available	nation	_
			i	;	•						
	Mobility										
		•		on in environr	nental	compart	ments:				
			available								
	Surface t						N 4 11			N.1	
	Value		°C	Concentr	Concentration Me		Metho	vietriod		Note	
i	No informat available	ion i	No nformation available	No information available		No information available		-			
	Adsorpti	on / de	sorption								
ranspor	t		efficient constant	log Kow		Evaporati	on rate		Method		Note
Soil-wate	r No ava	ilable	information			No information available		No information available		-	
Water-air	Vater-air No information available						No information available		-		
Soil-air No information available		information	No information available available					nformation able	nation -		
.2.5. I	Recults o	of DRT o	nd vPvB asses	ssment							
			available	SHICH							
	140 1111011	Hation	avanable								
L2.6. (Other ad	verse e	ffects								
			available								



Page 13 of 16

Trading name:		SULFURIC ACID, 0.5% SOLUTION	N
Product code:	SK05-OT-X**	Date of compilation: 03.06.2019	. Version: 3

SECTION	N 13 DISPOSAL CONSIDER	RATIONS		
13.1.	Waste treatment method	ds		
13.1.1.	Product/Packaging dispo	osal·		
	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	ant information:		
	No information available			
13.1.4.	Sewage disposal – releva	int information:		
	Waste must not be disposed of into the sewage system.			
13.1.5.	Other disposal recomme	ndations:		
	authorized by the minist	oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. 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:	-		
Transpo	rt hazard class(es):	-		
Packing group:		-		
Environmentally hazardous:		-		
Special precautions for user:		-		
-	Transporting/shipment by	rail (RID)		
UN num		Not subject to transport regulations.		
	er shipping name:	-		
	rt hazard class(es):	_		



Page 14 of 16

Trading name:		SULFURIC ACID, 0.5	% SOLUTION		
Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version:	3

Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Inland waterway transport (ADN)
UN nun	nber:	Not subject to transport regulations.
UN pro	per shipping name:	-
Transpo	ort hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by sea (I	MDG)
UN nun	nber:	Not subject to transport regulations.
UN pro	per shipping name:	-
Transpo	ort hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN nun	nber:	Not subject to transport regulations.
UN pro	per shipping name:	-
Transpo	ort hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
Further	information: The product is	not subject to classification.

SECTI	SECTION 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:	_			



Page 15 of 16

Trading name:		SULFURIC ACID, 0.5	% SOLUTION	_	
Product code:	SK05-OT-X**	Date of compilation:	03.06.2019.	Version:	3

15.2.	Chemical safety assessmen	nt
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
	Information according 199 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Other EU regulations:	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;
		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;
		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
		EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the

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.	16.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC 1272/2008 (CLP)			
Classifi	cation	Classification procedure		
_		_		
16.5.	Relevant H statements (number and full text)			
	H: H314	Causes severe skin burns and eye damage.		
16.6.	Training advice:	-		



Page 16 of 16

Trading name:		SULFURIC ACID, 0.5% SOLUTION	
Product code:	SK05-OT-X**	Date of compilation: 03.06.2019.	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.

Δ	N	N	J	F	X	

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



Page 1 of 16

Trading name:		OXALIC ACID, 1%	SOLUTION	
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3

SECTI	ON 1 IDENTIFICATION	OF THE SU	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	OXALIC A	ACID, 1% SOLU	JTION		
	Chemical name:	-				
	Catalogue number:	OKS1-OT	-X**			
1.2.	Relevant identified us	es of the su	bstance or mi	xture and uses advised against		
	Uses:		For use w	ith special staining kits.		
	Uses advised against:		Only the i	dentified uses are advised.		
	Reason why uses advi	advised against: medical device, registered at the Agency for M		uct is intended for use only as an <i>in vitro</i> diagnostic evice, 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 safe	ty data sheet			
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039			
	Telephone number:					
	Fax no.:					
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:	-				
1.4.	Emergency telephone	Emergency telephone number				
_	National Protection ar	nd Rescue D	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

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



Page 2 of 16

Trading name:		OXALIC ACID, 1%	SOLUTION	
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3

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

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

SECTION	TION 4 FIRST AID MEASURES					
4.1.	Description of first aid measu	res				
	General notes:	-				
	Following inhalation:	ve st	arry the afflicted person out of the contaminated area into a well- entilated area or out for fresh air. If breathing becomes erratic or it tops, immediately apply artificial respiration (other than mouth-to- nouth) and contact a physician.			
	Following skin contact: Following eye contact: Following ingestion:		emove contaminated clothing. Immediately wash with plenty of vater and soap. Seek medical assistance if the symptoms of irritation emain.			
			inse out with plenty of water with the eyelid held wide open using lean fingers. If the symptoms remain, immediately call a physician.			
			o not induce vomiting. Make the afflicted person drink a glass of vater. If spontaneous vomiting occurs, wash the mouth with water, nen make the person drink 100-200 ml of water and seek medical ttention.			
	Self-protection of the first aid	ler: Tı	reat symptomatically.			
4.2.	Most important symptoms a	nd effect	ts, both acute and delayed			
	Following inhalation:		ion of large amounts of vapors in inadequately ventilated perimeter use coughing, sneezing, headache and nausea.			
	Following skin contact:	_	rritation. After short exposure, resorption effects are not likely. Long- exposure may cause drying, cracking and tingling sensation of skin.			
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation a burning sensation.				



Page 3 of 16

Trading name:		OXALIC ACID, 1%	SOLUTION	
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3

	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	ive equipment and emergency procedures			
6.1.1.	For non-emergency personne				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. 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.			



Page 4 of 16

Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version:	3

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	ion: Secure proper ventilation.		
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.		
	Other measures:	-		
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. T	horoughly wash hands after work and before eating.		
7.2.	Conditions for safe storage, including any inco	mpatibilities		
	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:	-		



Page 5 of 16

Trading name:	OXALIC ACID, 1% SOLUTION			
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION								
8.1. Control parameters								
Substance				values/short		Biological limit values		
			ppm	mg/m ³	Nie liefe was die aus austiele e			
-		-		-	-	No information available		
Substance - name:	-							
EC No: -		CAS No:	-					
DNEL			:					
				Industrial				
Route of exposure:		Acute ect local	effe	Acute ect systemic	Chron effect lo			
Oral	-		-		-	-		
Inhalation	-		-		-	-		
Dermal	Dermal							
Critical physical parar	neters: s	solubility, fla	mmabilit	ty, corrosivity:	-			
				Consumer				
Route of		Acute		Acute	Chron			
exposure:	effe	ect local	effe	ect 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						



Page 6 of 16

Trading name:	OXALIC ACID, 1% SOLUTION			
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3

8.2.1.	Engineering measures			
	Substance/mixture related measures to prevent expoduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to pr exposure:	event	No information available	
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.	
8.2.2.	Personal protection equip	ment		
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.	
8.2.2.2.	Skin protection			
	Hand protection:		ctive gloves must be according to the EU Directive 2016/425/EEC and eard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min	
	Other skin protection:		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 f	ctive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No inf	ormation available	
8.2.3.	Environmental exposure	controls		
	Substance/mixture related measures to prevent exposure:		See Section 6	
	Structural measures to pr exposure:	event	Use modern equipment.	
	Organisational measures prevent exposure:	to	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	No information available		



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

Page 7 of 16

Trading name:				
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3

Odor:	no odor	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
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:			



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

Page 8 of 16

Trading name:	OXALIC ACID, 1% SOLUTION					
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3		

Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposu	e 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	-	-	-		
Sensitizatio	on						
Dermal exposure:	No information avail	able					
Inhalation exposure:	No information avail	able					
·	:						
Symptoms	related to the physica	l, chemical and	toxicological chara	cteristics			
Oral exposure:	sensation; higher l	evels of concer g, aspiration ca	of mucosa, tingling ntration may cause uses coughing, diff tion.	nausea, abo	dominal p	pain and vomiting.	
Dermal exposure:	_	•	ure, resorption effe		likely. Lo	ng-term exposure	
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.						



Page 9 of 16

Trading name:		SOLUTION			
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version:	3

1 2	ed dose toxicity (sub			-,			
	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 R			N
Cubacuta aral		specific effects		NIa :	Target orga		Note
Subacute oral No information available Subacute dermal No information available			No information available			_	
Subacute inhalat				No information available No information available			_
Subchronic oral No information available				nformation avai		-	
		ation available		No information available			-
Subchronic inhal	ation No informa	ation available		No ii	nformation avai	lable	-
Chronic oral				Na i	nformation avai	lahla	-



Page 10 of 16

				. a.g. = c .	
Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version:	3

Chronic dermal No informat		tion available	No information available -					
Chronic inhalation No informat			tion available	No information available -				
	CMR effects	(carcinogenicity	, mutagenicit	r, reproductive toxicity)				
	Carcinogenic	city:	Current s	tudies on test animals did not indicate carcinogenic effects.				
	Mutagenicity	ı in-vitro:	Current	n vitro tests did not indicate mutagenic effects.				
	Genotoxicity	•	No infor	nation available				
	Mutagenicity <i>in-vivo</i> :		Current	Current in vivo tests did not indicate mutagenic effects.				
	Germ cell mutagenicity: No in			information available				
	Reproductive	e toxicity:	No toxio organs.	toxicity on reproductive organs was determined in reproductive gans.				
	Summary of	evaluation of th	ne CMR prope	ties: -				
11.2.	Practical exp	eriences:						
	Remarks rele	vant for classifi	cation:	No information available				
	Other remarks:			No information available				
11.3.	General note	es:						
	-							

SECTION 12 ECOLOGICAL INFORMATION:

12.1. Toxicity

IZIZI TOMETCY						
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	-	1
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



Page 11 of 16

			. a.g. == 0. =0		
Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation: 03.06.2019.	Version: 3		

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

D: 1	1	
RIODE	gradation	٦
Dioact	ai adatioi	

% 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		Method	Evaluation	Note
No information available	No ir available	nformation	No information available	No information available	No information available



Tradin	na nan	no:					V A I :	IC ACID,	1% 50	LUTIO	NI .	raye	2 12	01 10
Tradin Produ			OVC1	OT V**					·····			Vor	-i.a.n.	2
Produ	Ct Coc	ie.	OK21	-OT-X**		Date	OI C	ompilati	on: U	3.06.20	19.	vers	sion:	3
		•				·			•					
	Chro	onic ecc	toxicit	у										
	Val	lue		Dose		Exposure time	S	pecies	Metl	nod	E	valuation		Note
Chroni	c toxic	ity on fi	ish	LC ₅₀	ir	lo nformation vailable		ormation ilable	No inform availab		No ii avail	nformation able	-	
Chroni		-		EC ₅₀	ir	No nformation vailable		ormation ilable	No inform availab	1	No information available			
				i		- · ·								
12.4.	4. Mobility in soil													
	Kno	wn or p	redicte	d distributi	on	in environm	enta	l compart	ments:					
	No i	informa	tion av	ailable										
	Surf	ace ten	sion:											
	\	Value		°C		Concentration Meth-			Metho	od			Note	
		rmation lable		ormation ailable	No information available		No information available			-				
	Δds	orption	/ deso	rntion				i						
Transp		Α/	D coef	·		log Kow		Evaporati	on rate	N	/lethc	od	N	lote
Soil-wa	ater	No availab		formation		lo informatic vailable		No inform available	nation	No inf availa	-	ation -		
Water-	-air	No availab		formation		lo informatic vailable		No inform available	nation	No information available		ation -		
Soil-air No available			formation	No information available					No information available		ation -			
10-	_	1												
12.5.				I vPvB asses	ssn	nent								
	No i	informa	tion av	allable										
12.6.	O+h.	er advei	co off	octs										
12.0.														
	I OVI	informa	tion av	allable										



Page 13 of 16

Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version:	3

SECTION	N 13 DISPOSAL CONSIDER	RATIONS				
13.1.	Waste treatment method	ls .				
13.1.1.	Product/Packaging dispo	osal·				
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.					
13.1.2.	Waste codes/waste design	gnations according to Law:				
	No information available					
13.1.3.	Waste treatment – releva	int information:				
	No information available					
13.1.4.	Sewage disposal – releva	nt information:				
	Waste must not be dispo	osed of into the sewage system.				
13.1.5.	Other disposal recomme	ndations:				
	authorized by the minist	oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit 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:	-				
Transpo	rt hazard class(es):	-				
Packing group:		-				
Environmentally hazardous:		-				
Special precautions for user:		-				
	Transporting/shipment by	rail (RID)				
UN num	ber:	Not subject to transport regulations.				
UN prop	per shipping name:					
	rt hazard class(es):	_				



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

Page 14 of 16

Trading name:		<u> </u>			
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version:	3

Packing	group:	-
Environ	mentally hazardou	-
Special	precautions for use	r: -
	Inland waterway t	ansport (ADN)
UN nun	nber:	Not subject to transport regulations.
UN pro	per shipping name	-
Transpo	ort hazard class(es):	-
Packing	group:	-
Environ	mentally hazardou	: -
Special	precautions for use	r: -
	Transporting/ship	ment by sea (IMDG)
UN nun	nber:	Not subject to transport regulations.
UN proper shipping name:		-
Transpo	ort hazard class(es):	-
Packing	group:	-
Environ	mentally hazardou	: -
Special	precautions for use	r: -
	Transporting/ship	ment 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	group:	-
Environ	mentally hazardou	: -
Special	precautions for use	r: -
Further	information:	The product is not subject to classification.

SECTION	ON 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:	-						



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

Page 15 of 16

Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	Version: 3	

	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; 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)	1/13/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%			
		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:					



Page 16 of 16

Trading name:	OXALIC ACID, 1% SOLUTION				
Product code:	OKS1-OT-X**	Date of compilation:	03.06.2019.	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.

Δ	N	N	J	F	X	

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



Page 1 of 16

Trading name:		HISTAI	NOL 70		
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5

SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	HISTANOL	70		
	Chemical name:	Ethyl alcoho	ol		
	Catalogue number:	H70-X**			
1.2	Relevant identified us	es of the subs	tance or m	nixture and uses advised against	
	Uses:		For use	in histocytology and cytology sample processing.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advi	sed against:	The product is intended for use only as an <i>in vitro</i> diagnomal medical device, registered at the Agency for Medicinal Products 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	person:	msds@b	<u>piognost.hr</u>	
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection a	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For ful	I text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	HISTANOL 70			
	Identification number:	-			
	Authorization number:	-			



Page 2 of 16

				. age = e. =e	
Trading name:		HISTAN	OL 70		
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5

	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- xxxx	~ 70%	ethanol	Flam. Liq. 2; H225			

SECT	SECTION 4. First aid measures				
4.1	Description of first aid measu	res			
	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.			



Page 3 of 16

Trading name:		HISTAN	IOL 70		
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5

	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:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.
4.3	Indication of any immediate medi	cal attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media	Extinguishing media			
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Formation of toxic gases is possible during heating or in case of fire.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit c	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	SECTION 6. Accidental release measures				
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.			



Page 4 of 16

Trading name:		HISTAN	HISTANOL 70		
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5

	F	Madethalanananaiana	
	Emergency procedures:	Mark the area using proper signs.	
6.1.2.	For emergency responders:		
	Use protective equipment; in (see Section 8).	case of inadequate ventilation use adequate airways protective equipment	
6.2	Environmental precautions:		
	Do not dispose of in sewage, Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.	
6.3	Methods and material for con	tainment and cleaning up	
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.	
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.	
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).	
6.4	Reference to other sections		
	See Section 7 for information on safe handling.		
		on personal protection equipment.	
	See Section 13 for disposal in		

SECTIO	N 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	leasures to prevent fire:			
	Measures to prevent aerosol and dust generation	ı :	Secure proper ventilation.		
	Measures to protect the environment:	es to protect the environment:			
	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 ventila	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		



Page 5 of 16

Trading name:		HISTAN	OL 70		
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5

	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Expo	sure conti	rols/persor	nal pr	otection				
8.1 Control p	parameters							
Substanc	e	CAS	S No		Occupational exposure limit values/short term values			l limit values
				рр	m	mg/m ³		
Ethanol		64-1	17-5	100	0/-	1900/-		-
Substance name:	-							
EC No:	-	CAS No:		-				
DNEL								
				Indu	strial			
Route of	Ac	ute		Acute		Chronic		Chronic
exposure:	effec	t local	effe	ct systemic		effect local	effe	ect systemic
Oral	-		-		-		-	
Inhalation	-		-		-		950 mg/m	³ (ethanol)
Dermal	-		-		-		343 mg/kg	g (ethanol)
Critical physical pa	arameters:	solubility, f	lamm	ability, corro	sivity:	-		
				Cons	umer			
Route of Acute Acute Chron		Chronic		Chronic				
exposure:	effe	ct local	effe	ct systemic	stemic effect local		effe	ct systemic
Oral	-		-		-		-	
Inhalation	-		-		-		114 mg/m	³ (ethanol)
Dermal	-		-		-		206 mg/kg	g (ethanol)
PNEC								



Page 6 of 16

Trading name:		HISTAN	OL 70	<u> </u>	
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5

Environmental protection target	PNEC
Fresh water	0.96 mg/l (ethanol)
Freshwater sediments	3.6 mg/kg (ethanol)
Marine water	0.79 mg/l (ethanol)
Marine sediments	no information available
Food chain	no information available
Microorganisms in sewage treatment	no information available
Soil (agricultural)	0.63 mg/kg (ethanol)
Air	no information available

0.0					
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to prevent exposure:	t	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent expo	osure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment	t			
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				
		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 f impern	everyday work use cotton clothing (EN 340) and suitable ar, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		



Page 7 of 16

Trading name:	ding name:		HISTANOL 70		
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5

8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) according to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

SECTI	ON 9. Physical and chemical prope	rties	
9.1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	colourless	No information available
	Odour:	alchohol like	No information available
	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point / freezing point;	-114.5°C	No information available
	Initial boiling point and boiling range:	78 °C	No information available
	Flash point:	21 °C	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:	lower: 3.5 Vol % upper: 15 Vol %	No information available
	Vapour pressure:	59 hPa	No information available
	Vapour density:	No information available	No information available
	Relative density:	0.711 - 0.87778 (20°C)	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	1 g/l (20°C)	No information available
	Partition coefficient: n- octanol/water (log Kow):	No information available	No information available



Page 8 of 16

Trading name:		HISTANOL 70							
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5				

	Auto-ignition temperature:	Product is not selfigniting	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	1.2 mPas (dynamic at 20°C)	No information available
	Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	No information available
	Oxidising properties:	No information available	No information available
9.2	Other information		
	Ignition temperature: 425 °C		

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

11.1 Information on toxicological effects								
Ac	cute toxicity:							
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results			
Oral:	-	rat (ethanol)	LD ₅₀	-	7.060 mg/kg			
Dermal:	-	-	-	-	-			
Inhalation: -		rat (ethanol)	LC ₅₀	4 h	20.000 mg/l			
- Jp	pecific target organ to	pecific effects	Target o	ırgan	Note			
Oral:		ion available	No information a	-				
					-			
Dermal:	ino informat	ion available	No information a	ivaliable -	-			
inhalation: No information available			No information a	ıvailable -				



Page 9 of 16

Trading name:	HISTANOL 70							
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5			

Irritation	and corrosion					
	Exposur	e time	Species	Evaluation	Method	Note
Skin corrosion/irritation	on:	-		-	-	-
Serious eye damage/irritation	-	-		-	-	-
Sensitiza	ation					
Skin sensitization	: No inf	ormation avail	able.			
Respiratory sensi	tization: No inf	ormation avail	able.			
Sympton	ms related to the pl	nysical, chemic	al and toxicolog	gical characteris	stics	
Oral exposure:	No informati	ion available.				
Dermal exposure	: No informati	ion available.				
Inhalation exposi	ure: No informati	ion available.				
Eye exposure:	No informati	ion available.				
Repeate	d dose toxicity (sub	acute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluatio	n Note
Subacute oral	No information available	No information available	No information available	No information available	No informati available	
Subacute dermal	No information available	No information available	No information available	No information available	No informati available	
Subacute inhalation	No information available	No information available	No information available	No information available	No informati available	
Subchronic oral	No information available	No information available	No information available	No No information		ion -
Subchronic dermal	No information available	No information available	No information available	No information available	No informati available	
Subchronic inhalation	No information available	No information available	No information available	No information available	No informati available	
Chronic oral	No information available	No information available	No information available	No No information available available		



Page 10 of 16

								Pay	e 10 of 16		
Trading name:					HIST	ANOL 70					
Product code:	H7	70-X**		Revisi	ion date:	13 May 20	19	Ve	ersion:	5	
	:		:			1					
Chronic dermal		ninformation information available		No on information available		No information available	No information available	on -			
Chronic inhalation		No information information available			o formation vailable	No information available	No information available	on	-		
Specific	target	organ toxicit	v – repeated	d expo	sure (STOT	RE):					
- 	<u> </u>		Specific ef			Target o	rgan		Note		
Subacute oral		No informa	tion availab	ole		No information		-			
Subacute derma	l	No informa	tion availab	ole		No informatio	n available	-			
Subacute inhalat	ion	No informa	tion availab	ole		No informatio	n available	-			
Subchronic oral		No informa	tion availab	le		No information	n available	-			
Subchronic derm	nal	No informa	tion availab	le		No informatio	n available	-			
Subchronic inhal	ation	No informa	tion availab	le		No informatio	No information available			-	
Chronic oral		No informa	tion availab	le		No informatio	n available	-			
Chronic dermal No information available						No informatio	n available	-			
Chronic inhalation	on	No informa	tion availab	le		No information	n available	-			
CMR ef	fects (c	arcinogenicit	y; mutageni	city; re	eproductive	toxicity)					
Carcino	genicit	y :				able data, the cla					
Mutage		n vitro:			Based on available data, the classification criteria are not met.						
Genoto	·····				Based on available data, the classification criteria are not met.						
Mutage						able data, the cla					
		agenicity:				able data, the cla					
Reprod	uctive t	toxicity:		Bas	sed on avail	able data, the cla	ssification c	riteri	a are not n	net.	
Summa propert	•	evaluation	of the	CMR	Based on met.	available data, 1	the classifica	ation	criteria ar	e not	
11.2 Practica	ıl exper	iences:									
Classific	Classification observations:					ation available					
Other o	Other observations:					No information available					
11.3 General	notes:										
_											



Page 11 of 16

Trading name:		HISTANOL 70							
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5				

SECTION 12. E	cologi	cal informat	tion					
12.1 Toxicity	у							
Acute (short-ter toxicity	rm)	Dose	Exposur time	e Species	Method	Eva	luation	Note
Fish		LC ₅₀	96 hours	No information available	No information available	No inforr availa	nation ble	-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inforr availa	nation ble	-
Algae/aquatic plants		IC ₅₀	4 days	No information available	No information available	No inforr availa	nation ble	-
Other organisms		-	-		-			
Chronic (long-term) toxicity		Dose	Exposur time	e Species	Method	Eva	luation	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 inforr availa	nation ble	-
Other organism	ıs	-	-	-				-
	degra	nd degradab	· · · · · · · · · · · · · · · · · · ·					
	De	gradation ha	alf-lives	Method	Evaluatio			Note
Marine water	No ir	nformation a	vailable	No information available	No information available		-	
Fresh water	No ir	nformation a	vailable	No information available	No information	on	-	
Air	No ir	nformation a	vailable	No information available	No informatic available	on	-	
Soil	No ir	nformation a	vailable	No information available	No information available		-	
Biodeg								
% Degradation	on	Time (c	days)	Method	Evaluatio	on		Note



				Page 12 of 16									
Tradin	g name:						HISTA	NOL	70				
Produc	ct code:	H70-X*	*		Revi	sion da	ate:	13	May 20	19	٧	ersion:	5
					1			·			Ī		·
No info	ormation le	No availab	inform ble	nation	No information available		on	No information available		1	No information available		
12.3	Bioaccumu	ılative po	tential										
	Octanol-w	ater parti	tion coeff	icient (log Kow)							
Valu	e Cor	ncentratio	n p	Н	°C	Ме	ethod		Evalu	ation		Note	
-	-		-		-	-		_			_		
	Bioconcen	tration fa	ctor (BCF)										
٧	'alue	9	Species	pecies		Method			Evaluati	on		Note	
No info	rmation le	No available			No information available			No information available		-			
availabi		avanabic					avai	avanable					
	Chronic ec	otovicity											
	CHIOTIC EC	Otoxicity		Evn	ocuro								
	Value		Dose		osure ime	Spe	ecies	М	ethod	Evalı	uation	Note	9
				No		No		No		No			
Chronic	toxicity on	fish	LC ₅₀		mation		mation		information inform			-	
				availa	able	availa	ble	avai	lable	availa	ble		
Chronic	toxicity on		T.C	No		No		No		No	- :		
crustac	ea (<i>Daphnia</i>)	EC ₅₀	availa	mation able	availa	nation ble		rmation lable	inform availa		-	
										1			
12.4	Mobility in	soil											
	Known or		distributi	on in e	nvironn	nental c	ompar	tments	<u> </u>				
	No inform			O11 111 C			.ompu						
	Surface ter												
	Value	131011.	°C	<u> </u>	oncentra	ation		Met	thod			Note	
	No	No			oncentro.	1011	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1416				11016	
	informatio available		mation able		informa iilable	ition	No in availa	format ble	tion	-			
	available available												



Page 13 of 16

Trading name:			HISTANOL 70									
Product	t code:	H70-X**		Revisio	n date:	13 M	lay 2019	Version:	5			
	Adsorption	on / desorption			÷			·				
Transpo	nsport A/D coefficient Henry's constant		log Kow		Evaporation rate		Method	Note				
Soil-wate	er No avai	information lable	No inf availat	ormation ble	No inform available	ation	No information available	-				
Water-a	ir No avai	information lable	No inf availab	ormation ble	No inform available	ation	No information available	-				
Soil-air	No information available			No information available No information available		ation	No information available	-				
12.5	Results o	esults of PBT and vPvB assessment										
	Not appli	lot applicable.										
12.6	Other adv	verse effects										
	No furthe	er relevant informati	on availa	able.								
SECTION	N 13. Disp	oosal consideration	S									
13.1	Waste t	reatment methods										
			_									
13.1.1.		t/Packaging disposa										
	Submit Protect	for disposal to the l	egal per	son autho	rized by the	Ministr	y of Environmental	and Nature				
	TTOTECT											
13.1.2.	Waste o	codes/waste designa	ations ac	cording to	Law:							
		ing that contains res				r is cont	aminated with haza	ardous substan	ces			
13.1.3.	Waste t	reatment – relevant	informa	ition:								
	No info	rmation available										
	,											
13.1.4.	Sewage	e disposal – relevant	informa	tion:								
	Waste r	nust not be dispose	d of into	the sewa	ge system.							
13.1.5.	Other c	lisposal recommend	ations:									
	authori	dispose of the prod zed by the ministry kaging to the collec	in charg	e. Do not d	dispose of t	ne packa	aging into the sewa					



Page 14 of 16

Trading name:		HISTAN	OL 70		
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5

13.1.6. Relevant Community provision	s:			
Disposal must be made accord	ling to official regulations.			
SECTION 14 TRANSPORT INFORMATIO	ON CONTRACTOR OF THE CONTRACTO			
Transporting/shipment by road (ADR)			
UN number:	1170			
UN proper shipping name:	Ethanol solution			
Transport hazard class(es):	3			
Packing group:	П			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by rail (R	ID)			
UN number:	1170			
UN proper shipping name:	Ethanol solution			
Transport hazard class(es):	3			
Packing group:	П			
Environmentally hazardous:	-			
Special precautions for user:	-			
Inland waterway transport (ADN)				
UN number:	1170			
UN proper shipping name:	Ethanol solution			
Transport hazard class(es):	3			
Packing group:	П			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by sea (II	MDG)			
UN number:	1170			
UN proper shipping name:	Ethanol solution			
Transport hazard class(es):	3			
Packing group:	П			
Environmentally hazardous:	-			
Special precautions for user:	-			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-			
Transporting/shipment by air (IC	AO-TI/IATA-DGR)			
UN number:	1170			



Page 15 of 16

Trading name:		HISTAN			
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5

UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Special precautions for user.	
Further information: -	

SECTION	ON 15. Regulatory informa	ation				
15.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or rest	rictions of use				
	Authorizations:	-				
	Restrictions:	-				
		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				
	Other EU regulations:	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				
15.2	Chemical safety assessme	nt				
	None					

SECTIO	ON 16. Other information	
16.1	Indication of changes:	-



Page 16 of 16

Trading name:		OL 70	<u> </u>		
Product code:	H70-X**	Revision date:	13 May 2019	Version:	5

		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:	Manufacturer's MSDS file.		
16.4. Classification and procedure u 1272/2008 (CLP)		used to derive	e the classification for mixture according to Regulation (EC)	
Classification		Classification procedure		
-		-		
16.5.	Relevant H statements (numb	er and full te	xt)	
	H: H225	Highly flammable liquid and vapor.		
16.6.	Training advice:	-		
		** "X" in the product code marks different volumes (different packagings o the product)		
16.7.	Further information:	instructions f	esponsible for consequences in case of failure to comply with for use or improper use of the product described in this ety data sheet.	

ANNEX: Exposure scenario resulting to chemical safety assessment
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Page 1 of 16

Trading name:		PARALDEHYDE F	UCHSIN REAGENT	<u>_</u>	
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3

SECTI	ECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1	Product identifier					
	Trading name:	PARALDEHYDE FUCH		SIN REAGENT		
	Chemical name:	-				
	Catalogue number:	PAF-OT-X**				
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against		
	Uses:		For stair	ning elastins and mucins.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advi	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet					
	Supplier:	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:	National contact:		-		
1.4	Emergency telephone number					
	National Protection and Rescue Dire		ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification						
2.1	Classification of the substance or mixture						
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and category code: Hazard statements*:						
	Flam. Liq. 2		H225				
	Carc. 1B		H350				
2.1.2.	Additional information						
	-						
*For ful	ll text of Hazard- and EU Hazard-	statements: see S	SECTION 16				
2.2	Label elements						
	Product identification: PARALDEHYDE FUCHSIN REAGENT						
	Identification number: -						
	Authorization number:	_					



Page 2 of 16

Trading name:					
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3

	Hazard pictograms:	GHS02 GHS08
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapour. H350 May cause cancer.
	Precautionary statements:	P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P308 + P313 IF exposed or concerned: Get medical advice or attention.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

SECTION 3. Co	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610- 43-xxxx	≥ 50%	ethanol	Flam. Liq. 2; H225		
569-61-9/ 209-321-2/ 611-031-00-X	-	≤ 1 %	4,4'-(4-iminocyclohexa-2,5-dienylidenemethylene)dianiline hydrochloride	Carc 1B; H350		

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



Page 3 of 16

Trading name:		PARALDEHYDE FUCHSIN REAGENT			
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3

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

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

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



Page 4 of 16

Trading name:	PARALDEHYDE FUCHSIN REAGENT				
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3

6.1.1.	For non-emergency personne		
	Protective equipment:	Use personal protective equipment (see Section 8).	
	Accident prevention methods:	Evacuate members of all non-essential personnel and those member 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.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.	
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).	
6.4	Reference to other sections		
	See Section 7 for information	on safe handling.	
		on personal protection equipment.	
	See Section 13 for disposal information.		

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



Page 5 of 16

Trading name:					
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3

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

SECTION 8. Exposure controls/personal protection									
8.1	Control par	rameters	rs						
Substance		CAS No			Occupational exposure limit values/short term values			Biological limit values	
						ppm	mg/m³		
Ethanol			64	4-17-5 100		1000/-	1900)/-	-
					•				
Substance name: -									
EC No: -		CAS No	lo: -						
DNEL			•						
					Iı	ndustrial			
Route of Acu		ute	Acute			Chronic		Chronic	
exposure	:	effect	local	effect systemi		nic	effect local		effect systemic
Oral		-		-		-			-
Inhalation		-			950 mg/m³ (ethanol)				
Dermal			-			343 mg/kg (ethanol)			
Critical pl	nysical para	ameters:	solubility,	flamma	ability, co	orrosivity:	-		
					С	onsumer	·		



Page 6 of 16

Trading name:		PARALDEHYDE FU	CHSIN REAGENT				
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3		

Route of		Acute	Acute		Chronic	Chronic			
exposure:		effect local	effect system	ic	effect local	effect systemic			
Oral		-	-		-	-			
Inhalation		-	-		-	114 mg/m³ (ethanol)			
Dermal	Dermal				-	206 mg/kg (ethanol)			
PNEC									
Environmental protection target					PNEC				
Fresh wate	er			0.96 mg/l (ethanol)					
Freshwate	r sediment	s		3.6 mg/kg (ethanol)					
Marine wa	iter			0.79 mg/l (ethanol)					
Marine sed	diments			n	o information available				
Food chair	n			n	o information available				
Microorga	nisms in se	ewage treatment		n	o information available				
Soil (agrice	ultural)			0.63 mg/kg (ethanol)					
Air			no information available						
8.2	Exposure controls								
8.2.1.	•		controls						
0.2.1.	Appropriate engineering controls Use the product in well ventilated rooms. Use personal								
		ce/mixture related exposure during i		onrotective equipment. Do not eat, drink or smoke in the					
	Structural measures to prevent exposure:				In accordance with Section 7.				
	Organisa exposure	ational measures t e:	to prevent	Organization of work in order to reduce other worker's influence during work process.					
	Technical measures to prevent exposure:			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.					
8.2.2.	Personal	protection equip	ment						
8.2.2.1.	Eye and	ye and face protection: levels o			ty glasses that stick to face (EN 166) or visor in case of lower ls of concentration in air; protective gas mask that covers the re face in case of higher levels of concentration in air.				
8.2.2.2.	Skin protection								
	The pr			rotective 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					



Page 7 of 16

Trading name:		PARALDEHYDE F	UCHSIN REAGENT		
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3

	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

9.1	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	violet	No information available			
	Odour:	alchohol like	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:	21 °C	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			



Page 8 of 16

Trading name:		PARALDEHYDE F	HYDE FUCHSIN REAGENT				
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3		

	Solubility(ies):	1 g/l (20°C)	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	Product is not selfigniting	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 dangerous reactions known.								
10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.								
10.5	Incompatible materials:	No further relevant information available.								
10.6	Hazardous decomposition products:	No dangerous decompostion products known.								

11.1 Information on toxicological effects									
Acute	toxicity:								
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results				
Oral:	-	rat (ethanol)	LD ₅₀	-	7.060 mg/kg				
Dermal:	-	_	-	_	-				
Inhalation:	-	rat (ethanol)	LC ₅₀	4 h	20.000 mg/l				
Speci	ic target organ tox	icity – single expo	sure (STOT SE):						
Speci		icity – single expo	sure (STOT SE): Target o	organ	Note				
Specification of the second of		pecific effects		_	Note				
; • •	Sp	pecific effects on available	Target o	available -	Note				
Oral:	Sp No informati	pecific effects on available on available	Target o	available -	Note				
Oral: Dermal:	Sp No informati No informati	pecific effects on available on available	No information a	available -	Note				



Page 9 of 16

Trading name:		PARALDEHYDE FUCHSIN REAGENT					
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3		

Irritation	n and cor	rosion								
		Exposur	e time	Species	Evaluation	Method	Note			
Skin corrosion/irritatio	on: -		-		-	-	-			
Serious eye damage/irritatior	- 1		-		-	-	-			
Sensitiza	ation									
Skin sensitization: No information				vailable						
Respiratory sensi			ormation avail							
		•		al and toxicolog	gical characteri	stics				
Oral exposure:			on available.							
Dermal exposure			on available.							
Inhalation exposi			on available.							
Eye exposure:	No	o informati	on available.							
Repeate	d dose to	oxicity (sub	acute, subchro	onic, chronic)			:			
	D	ose	Exposure time	Species	Method	Evaluati	on Note			
Subacute oral	No inf availabl	ormation e	No information available	No information available	No information available	No informa available				
Subacute dermal	No inf availabl	ormation e	No information available	No information available	No information available	No informa available				
Subacute inhalation	No inf availabl	ormation e	No information available	No information available	No information available	No informa availabl				
Subchronic oral	No inf availabl	ormation e	No information available	No information available	No information available	No informa available				
Subchronic dermal	No information available		No information available	No information available	No information available	No informa available				
Subchronic inhalation	No inf availabl	ormation e	No information available	No information available	No information available	No informa available				
Chronic oral	No inf availabl	ormation e	No information available	No information available	No information available	No informa available				



Trading name:			PA	RALDEH	YDE F	FUCHSIN REA	GENT			
Product code:	PA	F-OT-X**	Re	evision da	ite:	04 July 201	_9	Ve	rsion:	3
			·							
Chronic dermal	No i availa	nformation ble	No information available	No informa available		No No information informat available available		n	-	
Chronic inhalation	phalation available informati		No information available	No informa available		No information available	No informatic available	n	-	
Specific	target	organ tovicit	y – repeated e	evnosure (STOT I	DE).				
Specific	target	organ toxicit	Specific effe		31011	Target o	raan		Note	
Subacute oral	ubacute oral No information avail					No information		_	Note	
Subacute dermal		tion available			No information		-			
Subacute inhalati						No information		-		
Subchronic oral		No informa	tion available			No information	n available	-		
Subchronic derm	Subchronic dermal No information availa					No information available				
Subchronic inhala	No informa	tion available			No information available					
Chronic oral	No informa	tion available			No information	n available	-			
Chronic dermal		No informa	tion available			No information	n available	-		
Chronic inhalatio	n	No informa	tion available		No information available			-		
CMR eff	ects (ca	rcinogenicity	y; mutagenicit	ty; reprodu	ıctive t	toxicity)				
Carcino	genicity	r:	tu	Based on the test of the IARC carried out on ra tumor in the nose and in the pharynx had bee on other species have no results.					•	
Mutage	nicity <i>ir</i>	vitro:	Ва	Based on available data, the classification criteria					e not met.	
Genoto	cicity:		Ва	Based on available data, the classification criter					e not met.	
Mutage	nicity <i>ir</i>	ı vivo:	Ва	Based on available data, the classification criter					e not met.	
Germ ce	ll muta	genicity:	Ba	Based on available data, the classification criter					e not met.	
Reprodu	ictive to	oxicity:	Ва	ased on av	ailable	data, the classif	ication crite	ria ar	e not met.	
Summar properti	,	evaluation	of the CI	MR Base met.	d on	available data, t	he classifica	tion	criteria ar	e no
11.2 Practical	Lovnori	oncos:								
	-			No information available						
	Classification observations: Other observations:				No information available No information available					
11.3 General	General notes:									



Page 11 of 16

Trading name:		PARALDEHYDE FU	CHSIN REAGENT			
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3	

12.1 Toxicit	У							
Acute (short-te toxicity	rm)	Dose	Exposure time	Species	Method	Eval	uation	Note
Fish		LC ₅₀	96 hours	No information available	No information available	No inform availat		-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No inform availat		-
Algae/aquatic μ	olants	IC ₅₀	4 days	No information available	No information available	No		-
Other organism	าร	_	-	-	-	-		-
Chronic (long-t toxicity	erm)	Dose	Exposure time	Species	Method	Eval	uation	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 p	olants	IC ₅₀	72 hours	No information available	No information available	No inform availat		-
Other organism	าร	-	-	-	-	-		-
12.2 Persist	tence ar	nd degradab	oility					
Abioti	c degra	dation			:			
	Deg	gradation ha	alf-lives	Method	Evaluatio	on		Note
Marine water	No in	formation a	vailable	No information available	No information	on	-	
Fresh water	No in	formation a	vailable	No information available	No information	on	-	
Air	No information available No information available No information available		_					
Soil No information available		No information available	No informatio	on	_			



Page 12 of 16

Trading name:	PARALDEHYDE FUCHSIN REAGENT								
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3				

% D	egradation		Time (day	s)	N	/lethod		Evaluatio	n	Note	
No info	ormation ble	No ava	No information available					No information available		No information available	
12.3	Bioaccum	ulative	potential								
	1	•	artition coef	ficient (log Kow)				1	
Valu	ue Co	ncentra	ation	Н	°C	Metho	d	Evalu	ation		Note
-	-		-		-	-		-		-	
		tration	factor (BCF)							
	Value		Species			Method		Evaluation		Note	
No info	ormation		No information available		No information available			No information available		-	
availat	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	avana	valiable		available			available			
	Chronic e	otoxici	itv								
	Value		Dose		osure ime	Specie	5	Method	Eval	uation	Note
Chroni	c toxicity on	fish	LC ₅₀	No infor availa	mation able	No informati available	on	No information available	No inform availa		-
	ic toxicity on cea (<i>Daphnic</i>	·)	EC ₅₀	No	mation	No informati available	on	No information available	No inforn availa	nation	-
				avani	шыс	available		available	avana	DIC	
12.4	Mobility in	n soil									
1			ted distribu	ion in e	environm	nental com	oarti	ments:			
		•					-a1 (
No information available Surface tension:											
		5.571.	°C	C	oncentra	ation		Method			Note
No No information infor available avail		О	No information available					_			



Page 13 of 16

Trading name:			PARALI	DEHYDE FUCHS	SIN REAGENT	. age 13 0. 10
Product cod	de:	PAF-OT-X**	Revisio	n date: 04	l July 2019	Version: 3
Ads	orption	/ desorption				
Transport		'D coefficient nry's constant	log Kow	Evaporation rat	te Method	Note
Soil-water	No availat	information ole	No information available	No information available	No information available	-
Water-air	No availat	information ole	No information available	No information available	No information available	-
Soil-air	No availat	information ole	No information available	No information available	No information available	-
	ults of P applica	PBT and vPvB assessble.	ssment			
12.6 Oth	er adve	rse effects				
No	further	relevant information	on available.			
SECTION 13	. Dispo	sal consideration	s			
13.1 W	aste tre	atment methods				
13.1.1. Pr	roduct/F	Packaging disposa	l:			
	ubmit fo	•	egal person autho	rized by the Mini	stry of Environmental	and Nature
13.1.2. W	aste co	des/waste designa	itions according to) Law:		
Pa	ackaging	g that contains res	idual hazardous s	ubstances or is co	ontaminated with haz	ardous substances
		atment – relevant	information:			
N	o inforn	nation available				
		lisposal – relevant				
W	/aste mu	ust not be dispose	d of into the sewa	ge system.		
13.1.5. O	ther dis	posal recommend	ations:			



Page 14 of 16

Trading name:		-			
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3

	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.			
13.1.6.	Relevant Community provision	s:		
	Disposal must be made accord	ing to official regulations.		
SECTION	N 14 TRANSPORT INFORMATIO	N		
	Transporting/shipment by road (ADR)		
UN num	ber:	1170		
UN prop	per shipping name:	Ethanol solution		
Transpo	rt hazard class(es):	3		
Packing	group:	П		
Environn	nentally hazardous:	-		
Special p	precautions for user:	-		
	Transporting/shipment by rail (RI	[D)		
UN num	ber:	1170		
UN prop	per shipping name:	Ethanol solution		
Transpo	rt hazard class(es):	3		
Packing	group:	П		
Environn	nentally hazardous:	-		
Special p	precautions for user:	-		
	Inland waterway transport (ADN)			
UN num	ber:	1170		
UN prop	per shipping name:	Ethanol solution		
Transpoi	rt hazard class(es):	3		
Packing	group:	П		
Environn	nentally hazardous:	-		
Special p	precautions for user:	-		
	Transporting/shipment by sea (IM	MDG)		
UN num	ber:	1170		
UN prop	er shipping name:	Ethanol solution		
Transpo	rt hazard class(es):	3		
Packing	group:	П		
Environn	nentally hazardous:	-		
Special p	precautions for user:	-		
•	rt in bulk according to Annex II POL 73/78 and the IBC code:	-		



Page 15 of 16

- 1					- 3	
	Trading name:		PARALDEHYDE FU	JCHSIN REAGENT		
	Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3

Transporting/shipment by	air (ICAO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

registration, evaluation, authorization and restriction of chemical substance (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-guideline) 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	15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
Authorizations: Restrictions:		EU regulations		
Restrictions: 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 substance (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-guideline) 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		Authorization and/or rest	rictions of use	
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 substance (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 (VOCguideline) 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		Authorizations:	-	
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 substance (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-guideline) 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		Restrictions:	-	
registration, evaluation, authorization and restriction of chemical substance (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-guideline) 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				
Other EU regulations: 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-guideline) 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			Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);	
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-guideline) 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		Other EU regulations:	·	
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-guideline) 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		Other EU regulations:	EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;	
November 2008 on waste and repealing certain Directives Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline) 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			EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;	
guideline) 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			·	
National legislation: 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		_	99/13/EC about limitation of emissions of volatile organic compounds (VOC-	
Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act		National legislation:	dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and	
15.2 Chemical safety assessment			Ordinance on writing Material safety data sheet, Transport of Hazardous	
	15.2	Chemical safety assessme	ent	



Page 16 of 16

Trading name:		PARALDEHYDE F	UCHSIN REAGENT		
Product code:	PAF-OT-X**	Revision date:	04 July 2019	Version:	3

SECTIO	ON 16. Other informati		
16.1	Indication of changes	-	
16.2	Abbreviations and acr	PBT Stable, bioaccumulative and toxic vPvB Strongly stable and strongly bioaccumulative. LD ₅₀ Lethal dose, 50% LC ₅₀ Lethal concentration, 50% TCOJ Specific target organ toxicity - single exposure	
16.3.	Key literature reference source of data:	Manufacturer's MSDS file.	
16.4.	Classification and pro- 1272/2008 (CLP)	ure used to derive the classification for mixture according to Regulation	on (EC)
Classifi	cation	Classification procedure	
_		-	
16.5.	Relevant H statement	umber and full text)	
	H: H225	Highly flammable liquid and vapour.	
	H350	May cause cancer.	
16.6.	Training advice:	-	
16.7.	Further information:	** "X" in the product code marks different volumes (different pactite product) We are not responsible for consequences in case of failure to constructions for use or improper use of the product described in material safety data sheet.	mply with

ANNEX:	Exposure scenario resulting to chemical safety assessment
-	



Page 1 of 16

Trading name:	NUCL	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3	

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	NUCLEAR F	AST RED (KERNECHTROT) REAGENT	
	Chemical name:	-			
	Catalogue number:	KR-OT-X**			
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against	
	Uses:		Counter	stain in many special staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advi	sed against:	medical	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 sheet				
	Supplier:	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 ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification						
2.1	Classification of the substance or mixture						
2.1.1	Classification according to 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:	NUCLEAR FAST	RED (KERNECHTROT) REAGENT				
	Identification number:						
	Authorization number:	-					
	Hazard pictograms:	-					



Page 2 of 16

Trading name:	NUCL	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3	

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

SECTION 3. Co.	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
6409-77-4/ 229-088-0/ -	-	≤ 1%	Disodium 1-amino-2,4-dihydroxy- 9,10-dihydro-9,10-dioxoanthracene- 3-sulphonate	Skin Irr. 2; H315 Eye Irr. 2; H319 STOT SE; H335				

SECT	CTION 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 effects, 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.				



Page 3 of 16

Trading name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT							
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3			

	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 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	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. 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.				



Page 4 of 16

Trading name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT							
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3			

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 undisposal. 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 ir	nformation.			

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 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 ventila	htly 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 clos	r from food and drink. Keep the containers sed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no of that directly leads into sewage system. Secure proposition.				
	Further information on storage conditions:	and do no	ice the unused material in the storage room t use empty containers for storing other Do not store with incompatible materials on 10).			



								Page 5 of 16	;
Trading name:			NUCLEA	R FAST	RED (KE	RNECHTR	OT) REAGE	NT	
Product code: KR-OT-X		X**	D	ate of c	ompilation	on: 03 J	uly 2019	Version:	3
7.3 Specific e									
Recomme					-				
Industrial	sector spe	cific solut	tions:		-				
		. ,							
SECTION 8. Expos		ols/perso	onal protec	tion					
8.1 Control pa	arameters	l		T					
		CAS No		Occupational exposure limit values/short term values					
Substance	9					Biological limit values			
				рр	pm mg/m³				
-			-	-		-	-		
Substance name:	-								
EC No:	-	CAS No	o: -						
DNEL									
				Indus	strial				
Route of Acute		ıte	Acut	te		Chronic		Chronic	
exposure:	effect	local	effect sys	stemic	e e	ffect local		effect systemic	
Oral	-		-		-		-		
Inhalation	-		-		-		-		
Dermal	-		-		-		-		
Critical physical na	rameters	colubility	flammahilit	v corros	civity:	_			

 p, 5ca	parameters	55.6.5,	,	
				ī

C	on	ISU	ım	er

Route of	Acute	Acute	Chronic	Chronic
exposure:	effect local	effect systemic	effect local	effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-

PNEC

Environmental protection target	PNEC
Fresh water	no information available
Freshwater sediments	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 information available



Page 6 of 16

Trading name:	NUCI	EAR FAST RED (KERNEC	CHTROT) REAGE	NT	
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

8.2	Exposure controls				
8.2.1.	Appropriate engineering controls	5			
	Substance/mixture related measurevent 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	rposure:	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	nt			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of levels of concentration in air; protective gas mask that coverent entire 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 During everyday work use cotton clothing (EN 340) and suitable cotwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of empermeable material suitable for protection from liquid chemical Viton, PVC, himex) and footwear made from the same material.		
	Other skin protection:	footwe entire imperr			
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 ace.		



Page 7 of 16

Trading name:	NUCI	EAR FAST RED (KERNE	CHTROT) REAGE	NT	
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

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:	red	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.



Page 8 of 16

Trading name:		NUCLEAR FAST RED (KERNE	CHTROT) REAGE	NT	
Product code:	KR-OT-X**	Date of compilation:	03 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

11.1 Inform	nation on to	xicological e	ffects						
	toxicity:								
Route of exposure:	٨	1ethod	Species	Do	ose LD ₅₀ /LC ₅₀ or ATE _{mix}	Ex	posure ti	me	Results
Oral:	No in availa	formation Ible	_		information lable		-		_
Dermal:	No in availa	formation Ible	_		information lable		_		_
Inhalation: No ir availa		formation Ible	_		information lable		_		_
3									
Specif	ic target or	gan toxicity –	- single exp	osure (S	TOT SE):				
		Specific	effects		Target organ		Note		Note
Oral: No information available		/ailable	No information ava		availab	ailable -			
Dermal:	No in	formation av	/ailable	No information available		-			
Inhalation:	No in	formation av	on available		No information available		-		
*									
Aspira	tion hazard	•	١	No information available.					
Irritati	on and corr								
		Exposure t	ime	Spec	ies Evaluat	ion	n Method		Note
Skin - corrosion/irritation:		-		-		_	-		
Serious eye - damage/irritation			-		-		-	-	
Sensit	ization								
Skin sensitization	on:	No infor	mation avai	ilable.					
Respiratory sensitization: No information av		mation avai	ilablo						



Page 9 of 16

Trading name:	NUCL	NUCLEAR FAST RED (KERNECHTROT) REAGENT			
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

Oral exposure:		Harmful if sw	allowed.				
Dermal exposure	: :	Harmful if ab	sorbed throug	jh skin. May cau	ıse skin irritation	•	
Inhalation expos	ure:	Harmful if inl	naled. May cau	ıse respiratory t	ract irritation.		
Eye exposure:		May cause ey	e irritation.				
Repeate	ed dos	e toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No avail	information able	No information available	No information available	No information available	No information available	ı -
Subacute dermal	No avail	information able	No information available	No information available	No information available	No informatior available	- -
Subacute inhalation	No information available		No information available	No information available	No information available	No informatior available	ı -
Subchronic oral	No avail	information able	No information available	No information available	No information available	No information available	n -
Subchronic dermal	No avail	information able	No information available	No information available	No information available	No information available	ı -
Subchronic inhalation	No avail	information able	No information available	No information available	No information available	No information available	ı -
Chronic oral	No avail	information able	No information available	No information available	No information available	No information available	ı -
Chronic dermal	No avail	information able	No information available	No information available	No information available	No information available	ı -
Chronic inhalation	No avail	information able	No information available	No information available	No information available	No information available	ı -
Specific	targe	t organ toxicit	<u> </u>	xposure (STOT			
<u> </u>		N	Specific effec	ts	Target o		Note
Subacute oral	I		tion available		No information	n available n available	



Page 10 of 16

Trading name:		NUCLEAR FAST RED (KERNE	CHTROT) REAGE	NT	
Product code:	KR-OT-X**	Date of compilation:	03 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	R Based on available data, the classif met.	ication criteria are no			
	Reproductive t	oxicity:	Based on available data, the classification	i criteria are not met.			
	Germ cell muta		Based on available data, the classification criteria are not met.				
	Mutagenicity i		Based on available data, the classification criteria are not met.				
	Genotoxicity:		Based on available data, the classification				
	Mutagenicity i	n vitro:	Based on available data, the classification criteria are not met.				
	Carcinogenicit	y:	Based on available data, the classification criteria are not met.				
	CMR effects (c	arcinogenicity; mutagenicity;	reproductive toxicity)				
Chroni	c inhalation	No information available	No information available	-			
Chronic dermal		No information available	No information available				
Chronic oral		No information available	No information available				
Subchr	onic inhalation	No information available	No information available	-			
Subchronic dermal N		No information available	No information available	-			
Subchr	onic oral	No information available	No information available	-			
Subacute inhalation		No information available	No information available) -			

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	-	



Page 11 of 16

Trading name:	NUCL	NUCLEAR FAST RED (KERNECHTROT) REAGENT			
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

Product code: k		KR-OT-X**		Date of compila	Date of compilation: 03 Ju		3 July 2019		Version:	
							T			
Algae/aquatic pl	lants	IC ₅₀	4 days	No information available	No inform availat		No information available	on	-	
Other organisms	S	-	-	-		-	-		_	
Chronic (long-te toxicity	erm)	Dose	Exposure time	e Species	Met	thod	Evaluat	ion	Note	
Fish		LC ₅₀	96 hours	No information available	No inform availab		No information available	on	-	
Crustacea:		EC ₅₀	48 hours	No information available	No inform availat		No information available	on	_	
Algae/aquatic pl	lants	IC ₅₀	72 hours	No information available	No inform availab		No information available	on	_	
Other organisms	S	-	-	-	-		-		_	
12.2 Persiste	ence a	nd degradal	oility							
Abiotic	degra	adation								
	De	egradation h	alf-lives	Method	E	valuatio	n	N	lote	
Marine water	No ir	nformation a	available	No information	No inf	ormatio	n -			

	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	-

Biod		

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

12.3 Bioaccumulative potential

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

value	Concentration	рп		Ivietilou	Lvaluation	Note	
Value	Concentration	На	۰۲	Method	Evaluation	Note	
Octahol-water partition coefficient (log Kow)							



											Page 12 of	10
Trading	name:			NUC	LEAR FA	AST R	ED (K	RNECH	ITROT)	REAGEN	Τ	
Product	t code:	KR-C	KR-OT-X**		Date	Date of compilation:			03 July	2019	Version:	3
	Bioconce	ntration	factor (BCF)								
Va	alue		Species		М	ethoc	l	Ev	/aluatior	1	Note	
No infor		No	inforn	nation	No infor		n		ormation	1		
available	9	availa	ble		available	9		availab	le			
	Chronic e	ecotoxici	ty									
	Value		Dose		osure me	Spe	ecies	Method		Evaluatio	n No	ote
Chronic	toxicity o	n fish	LC ₅₀	information		No inforr availa	mation ible	No inform availab	ation	No informatior available	۱ -	
	toxicity o a (<i>Daphn</i>		EC ₅₀	No information available		No inforr availa	mation ible	No information available		No informatior available	۱ -	
			I	- 1	I_			i .	 		l .	
12.4	Mobility	in soil										
	Known o	r predict	ed distribut	ion in e	nvironme	ental c	ompart	ments:				
	No infor	mation a	vailable									
	Surface t											
	Value		°C	Co	ncentrat	ion		Metho	od		Note	
	No informat available		o formation vailable		informati ilable	ion	No inf availal	ormation ole	n	-		
		İ					<u> </u>			<u></u>		
	Adsorpti	on / desc	orption									
Transpo	rt I	A/D coe Henry's c	efficient constant	lo	g Kow	Εν	/aporati	on rate	M	ethod	Not	te
Soil-wat	er No ava	i lable	nformation	No in availa	formatio ble		o inform ailable	nation	No info	ormation ole	-	
Water-a	ir No	i lable	nformation	No in availa	formatio		o inform	nation	No info	ormation	-	



Page 13 of 16

Trading name:			NUCLEAR FAST RED (KERNECHTROT) REAGENT					
Produc	t code:	KR-OT-X**	Date of	compilation:	03 July 2019	Version:	3	
Soil-air	No avail	information able	No information available	No information available	No information available	-		
12.5	Doculto of	PBT and vPvB asse	ecomont					
12.3	Not applic		essinent					
	1101 аррік	cabic.						
12.6	Other adv	erse effects						
	No furthe	r relevant informat	ion available.					
SECTIO	N 13. Disp	osal consideration	ns					
13.1	Waste to	reatment methods						
10.1.1								
13.1.1.		/Packaging disposi		uin a d la cetta a NAimia	tu	Land Nations		
	Protecti	•	iegai person autho	rized by the Minis	try of Environmental	i and Nature		
13.1.2.	Waste c	odes/waste design	ations according to	c Law:				
	15 01 10 substan		contains residual h	azardous substand	es or is contaminate	ed with hazardo	ous	
13.1.3.	Waste t	reatment – relevan	t information:					
13.1.3.		mation available	t imormation.					
13.1.4.	Sewage	disposal – relevan	t information:					
	Waste n	nust not be dispose	ed of into the sewa	ge system.				
	,							
13.1.5.	Other d	isposal recommend	dations:					
	authoriz		in charge. Do not	dispose of the pac	m. Submit the remain kaging into the sewa arge.			
13.1.6.	Relevan	t Community provi	sions:					
	Disposa	I must be made ac	cording to official r	egulations.				
SECTIO		ISPORT INFORMA						
	·	ing/shipment by ro						
UN nun	nber: per shippin		Not subject t	o transport regula	tions			



Page 14 of 16

Trading name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT						
Product code:	KR-OT-X**	Date of compilation:	03 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 (II	MDG)
Transporting/shipment by sea (II 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
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 (ICUN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:	Not subject to transport regulations Not subject to transport regulations



Page 15 of 16

Trading name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

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

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



Page 16 of 16

Trading name:	NUCLEAR FAST RED (KERNECHTROT) REAGENT				
Product code:	KR-OT-X**	Date of compilation:	03 July 2019	Version:	3

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	catior	1	Classification procedure		
-			-		
16.5.	Rele	evant H statements (num	ber and full text)		
		H315	Causes skin irritation.		
	H:	H319	Causes serious eye irritation.		
		H335	May cause respiratory irritation.		
16.6.	Trai	ning advice:	-		
	16.7. Further information:		** "X" in the product code marks different volumes (different packagings of the product)		
16.7.			We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNE	X: Exposure scenario resulting to chemical safety assessment
_	



Page 1 of 16

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

SECTI	ON 1: Identification of t	he substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name: FAST GREEN		N F.C.F. RE	AGENT		
	Chemical name: -					
	Catalogue number:	FGR-OT-X*	*			
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against		
	Uses:			stain used with Masson-Goldner Trichrome and Paraldehyde staining kits.		
	Uses advised against:		Only the	identified uses are advised.		
	Reason why uses advis	sed against:	medical	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@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 Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category code: Hazard statements*:				
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	FAST GREEN F.G	C.F. REAGENT		
	Identification number: -				
	Authorization number: -				
	Hazard pictograms: -				



Page 2 of 16

Trading name:	FAST GREEN F.C.F. REAGENT					
Product code:	FGR-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	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 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.		



Page 3 of 16

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

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 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	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, or Protection and Rescue Directo	Irainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.		
6.3	Methods and material for cont	ainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		



Page 4 of 16

Trading name:	FAST GREEN F.C.F. REAGENT				
Product code:	FGR-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	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 ventilated		ghtly closed and upright set containers in a lated storage rooms at temperatures ranging to 25 °C. Protect from heat and direct sunlight.	
	Packaging materials:	Manufactu	turer's original packaging. ay from food and drink. Keep the containers osed.	
	Requirements for storage rooms and vessels:	Keep away tightly clos		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no dra that directly leads into sewage system. Secure proper ventilation.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).		
7.3	Specific end use(s)			
_	Recommendations:	-		
	Industrial sector specific solutions:	-		

SECTION 8. Exposure controls/personal protection



Page 5 of 16

					i age 5 ci ±	
Tradir	ng name:		FAST GREEN F.C.F.	REAGENT		
Produ	uct code:	FGR-OT-X**	Date of compilation:	27 June 2019	Version:	3
8.1	Control p	parameters				

8.1 Control pa	arameters									
Substance		CA	CAS No		Occupational exposure limit values/short term values			Biological limit values		
					pm	mg/m ³		, and the second		
					-	-	-			
Substance name:	-									
EC No:	-	CAS No	: -							
DNEL										
				Indu	ıstrial					
Route of	Acı	ıte	Acut	te		Chronic		Chronic		
exposure:	effect	local	effect sys	stemic		effect local		effect systemic		
Oral	-		-		-			-		
Inhalation	-		-		-			-		
Dermal	-		-		-			-		
Critical physical par	rameters: s	olubility,	flammabilit	y, corro	osivity:	-				
				Cons	sumer					
Route of	Ad	cute	Acut	te		Chronic		Chronic		
exposure:	effec	t local	effect sys	stemic		effect local		effect systemic		
Oral	-		-		-		-			-
Inhalation	-		-		-			-		
Dermal	-		-		-			-		
PNEC										
Environmental prot	tection tar	get			PNEC					
Fresh water						nation available				
Freshwater sedime	nts					nation available				
Marine water						nation available				
Marine sediments				r	no inform	nation available	1			
Food chain				r	no inform	nation available	1			
Microorganisms in sewage treatment			r	no inform	nation available					
Soil (agricultural)				r	no inform	nation available	ı			
Air				r	no inform	nation available	1			
8.2 Exposi	ure contro	lc								
	priate eng		controls							



Page 6 of 16

Trading name:		FAST GREEN F.C.F.	REAGENT		_			
Product code:	FGR-OT-X**	Date of compilation:	27 June 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 prevexposure:	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:	levels o	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 Se	ection 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	ection 6			

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties



Page 7 of 16

Trading name:		FAST GREEN F.C.F.	REAGENT				
Product code:	FGR-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				



Page 8 of 16

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

11.1	Information	on toxicological e	ffects						
	Acute toxicit	ty:							
Route exposi	Method Specie			Do	ose LD ₅₀ /LC ₅₀ ATE _{mix}	or	Exposure tim	ne Result	
Oral:		No information available	_		information ilable		_	-	
Derma	·I•	No information available	_		information ilable		_	-	
Inhalat	ion.	No information available	_		information ilable		_	-	
	Specific targ	et organ toxicity -	- single expos	sure (S	TOT SE):				
		Specific				rget orga	n	Note	
Oral:		No information av	vailable		No informa			-	
Derma	ıl:	No information av	ailable		No information available -				
Inhalat	tion:	No information av	vailable	No information available -				_	
	<u>.</u>								
	Aspiration h	azard:	No	inforr	mation availa	ble.			
	Irritation and	d corrosion							
		Exposure t	ime	Speci	ies Eva	aluation	Method	Note	
Skin corros	ion/irritation:	-	-		-		-	-	
Seriou damag	s eye ge/irritation	-	-		-		-	-	
	Sensitization								
Skin sa	ensitization:	1	mation availa	hle					
	atory sensitizat		mation availa						
respire	atory serisitizat	.ioii. INO IIIIOII	mation availa	IDIC.					
	Symptoms r	elated to the phys	ical, chemica	I and t	oxicological	character	istics		
	kposure:	Harmful if swall		J. C					
Oral ex									
	l exposure:	Harmful if abso	armful if absorbed through skin. May cause skin irritation. armful if inhaled. May cause respiratory tract irritation.						
Derma	l exposure:								



Page 9 of 16

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

Repeate	ed dose	toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No i availa	nformation ble	No information available	No information available	No information available	No information available	=
Subacute dermal	No i availa	nformation ble	No information available	No information available	No information available	No information available	-
Subacute inhalation	No i availa	nformation ble	No information available	No information available	No information available	No information available	-
Subchronic oral	No i availa	nformation ble	No information available	No information available	No information available	No information available	-
Subchronic dermal	No i availa	nformation ble	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No i availa	nformation ble	No information available	No information available	No information available	No information available	-
Chronic oral	No i availa	nformation ble	No information available	No information available	No information available	No information available	-
Chronic dermal	No i availa	nformation ble	No information available	No information available	No information available	No information available	-
Chronic inhalation	No i availa	nformation ble	No information available	No information available	No information available	No information available	-
-							_
Specific	target	organ toxicit	y – repeated e	xposure (STOT F	-	-	
			Specific effec	its	Target o		Note
Subacute oral			tion available		No information		
Subscute dermal		No informa	tion available		No information	availahla -	

: -	Specific effects	Target organ	Note
	•		14000
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	-



Page 10 of 16

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

Chronic inhalation		No information available		No information available -					
	CMR effects (carcinogenicity; mutagenicit	y; re	productive toxicity)					
	Carcinogenic	ity:	Bas	ed on available data, the classification criteria are not met.					
	Mutagenicity	in vitro:	Bas	ed on available data, the classification criteria are not met.					
	Genotoxicity:		Bas	ed on available data, the classification criteria are not met.					
	Mutagenicity	in vivo:	Bas	ed on available data, the classification criteria are not met.					
	Germ cell mu	tagenicity:	Based on available data, the classification criteria are not met.						
	Reproductive toxicity:			Based on available data, the classification criteria are not met.					
	Summary o properties:	f evaluation of the CI	MR	Based on available data, the classification criteria are not met.					
11.2	Practical expe	eriences:							
	Classification	observations:		No information available					
	Other observ	ations:		No information available					
11.3	General note:	s:							
	_								

SECTION 12. Ecologi	SECTION 12. Ecological information						
12.1 Toxicity	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	-	



Page 11 of 16

Trading	g name:					FAST GREEN	F.C.F.	REAGE	NT	Page 11 of 1	
Produc		F	GR-OT-X**	:	D	ate of compila			ne 2019	Version:	3
		•				<u></u>					
Crustace	ea:		EC ₅₀	48 hours		No information available	No inforr availa	mation able	No information available	on -	
Algae/a	quatic pla	ants	IC ₅₀	72 hours		No information available	No inforr availa	mation able	No information available	on -	
Other o	rganisms		-	-	-	-	-		-	-	
12.2	Persister	nce ai	nd degrada	bility							
	Abiotic (degra	dation								
		De	gradation h	alf-lives		Method		Evaluatio	n	Note	
Marine	water	No ir	nformation a	available		information ilable	No in availa	iformation able	n -		
Fresh wa	ater	No ir	nformation a	available		information ilable	No in availa	formation able	n -	-	
Air		No ir	nformation a	available		No information No information available available		n -	-		
Soil		No ir	nformation a	available		information ilable	No information available		n -	-	
	Biodegra	adatio	on.								
% De	gradation	-	Time (days)		Method		Evaluatio	n	Note	
No info	rmation			nformation	No information available No information available			o information ailable			
100	D:				1				:		
12.3			ive potentia		los V	(a) W					
Value			er partition on the original of the original origi	pH	°C	ow) Method	9 9 9 9 9 9 9	Evalu	ation	Note	
-	-	Jonce	THAHOH	μ Π	-	- INTELLIOU	-	- Evalu	ation	-	
	Riocono	ontra	tion factor (IRCE)		:					
\/-		CITUID				Method		Fyaluati	on	Note	
Value No information available		1			Method No information available		Evaluation No information available			ivote	



Tradin	ng nam	e:		F.A	ST G	REEN F	.C.F. RI	AGEN	IT			
Produ	ct code	e: FC	GR-OT-X**	Date	of co	mpilatio	on:	27 Jun	ne 20)19	Version:	
	Chror	nic ecoto	xicity									
	Valu	ie	Dose	Exposure time	Sp	ecies	Meth	nod	E۱	/aluation	Note	!
Chroni	c toxicit	y on fish	LC ₅₀	No information available	No infor avail	mation able	No inform availab			ormation ilable	-	
	c toxicit cea (<i>Dap</i>	-	EC ₅₀	No information available	No infor avail	mation able	No inform availab			ormation ilable	-	
12.4	Mobi	lity in soi	il									
	Know	n or pre	dicted distributi	on in environm	ental	compart	ments:					
	No in	formatio	n available									
	Surfa	ce tensio		1								
		alue	°C	Concentra	tion		Metho	od			Note	
	No inforr availa	mation lble	No information available	No informat available	ion	No infavailat	ormatio	n		-		
	Adso	rotion /	Vocarntian									
	Ausoi		desorption coefficient		5 6 8 8 8 8 8							
Transp	ort	-	s constant	log Kow	E	vaporati	on rate	ľ	Meth	od	Note	
Soil-wa	at∆r :	No available	information	No informatio		o inform vailable	ation	No ir availa	_	nation	-	
Water-	air :	No available	information	No information		o inform vailable	ation	No ir availa		nation	-	
Soil-aiı	r	No available	information	No information		o inform vailable	ation	No ir availa		nation	-	
12.5	Recul	ts of PRT	and vPvB asses	ssment								
12.5		pplicable		Jament								
		1- p 55.51										
12.6	Other	adverse	effects									
			evant information									



Page 13 of 16

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

SECTIO	N 13. Disposal considerati	ons				
13.1	Waste treatment method	ls				
13.1.1.	Product/Packaging dispo	sal:				
	Submit for disposal to th Protection.	e legal person authorized by the Ministry of Environmental and Nature				
13.1.2.	Waste codes/waste desic	nations according to Law:				
	15 01 10*: Packaging tha substances	t contains residual hazardous substances or is contaminated with hazardous				
13.1.3.	Waste treatment – releva	nt information:				
	No information available					
13.1.4.	Sewage disposal – releva	nt information:				
	Waste must not be dispo	sed 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.				
13.1.6.	Relevant Community pro	ovisions:				
	Disposal must be made a	ccording to official regulations.				
SECTIO	N 14 TRANSPORT INFORM	1ATION				
	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:	-				
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:	-				
Transpo	rt hazard class(es):	-				
Packing	group:	-				



Page 14 of 16

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

F	
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)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC.	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	ECTION 15. Regulatory information					
15.1	Safety, health and env	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations	EU regulations				
	Authorization and/or	restrictions of use				
	Authorizations:	-				
	Restrictions:	-				



Page 15 of 16

Trading name:		FAST GREEN F.C.F.	REAGENT		
Product code:	FGR-OT-X**	Date of compilation:	27 June 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	SECTION 16. Other information				
16.1	Indication of changes:	-			
160	2 Abbreviations and acronyms:	PBT vPvB	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative.		
16.2		LD ₅₀ LC ₅₀ TCOJ	Lethal dose, 50% Lethal concentration, 50% 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)				
Classification		lassification pro	ocedure		
_	-				
16.5.	Relevant H statements (number and full text)				
	H:				
16.6.	Training advice: -				



Page 16 of 16

Trading name:	FAST GREEN F.C.F. REAC		F. REAGENT		
Product code:	FGR-OT-X**	Date of compilation:	27 June 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
-