



Page 1 of 17

Trading name:	BOUIN'S SOLUTION				
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6

1.1.	Product identifier				
	Trading name:	BOUIN'S SOLUT	ION		
	Chemical name:	_			
	Catalogue number:	BOU-OT-X**			
1.2.	Relevant identified uses	of the substance	e or m	ixture and uses advised against	
	Uses: Fix		Fixativ	ve for use in histopathology.	
	Uses advised against:		Only t	he identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet				
	Supplier:	BioGno	Gnost Ltd.		
	Address:	Medju	djugorska 59, Zagreb		
	Telephone number:	+385 1	85 1 2409997		
	Fax no.:	+385 1	1 2404039		
	e-mail of competent pe	rson: <u>msds@</u>	ds@biognost.hr		
	National contact:				
1.4.	Emergency telephone number				
	National Protection and	Rescue Director	ate:	112	
	Medical information:			+385 1 2348 342	
	Other information:				

2.1.	Classification of the substance or mixture			
2.1.1.	Classification according to (EC) Regulation No	o. 1272/2008 (CLP)		
	Hazard class and category code: Hazard statements*:			
	Acute Tox. 4	H302		
	Acute Tox. 4	H312		
	Skin Irrit. 2	H315		
	Skin. Sens. 1 H317			
	Eye Irrit. 2	H319		
	Acute Tox. 4	H332		
	Carc. 2	H351		
2.1.2.	Additional information			
	-			



Page 2 of 17

Trading name:	BOUIN'S SOLUTION				
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6

	Label 1272/2008 (CLP)  Product identification:	BOUIN'S SOLUTION
	Identification number:	
	Authorization no.:	
	Hazard pictograms:	GHS07 GHS08
	Signal word:	Danger
	Hazard statements:	<ul> <li>H302 Harmful if swallowed.</li> <li>H312 Harmful in contact with skin</li> <li>H315 Causes skin irritation</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation</li> <li>H332 Harmful if inhaled.</li> <li>H351 Suspected of causing cancer</li> </ul>
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection.  P301+P330+P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting.  P302+P352 IF ON SKIN: Wash with plenty of water and soap.  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P308 + P313 IF exposed or concerned: Get medical advice/attention.
	Further information:	
3.	Other hazards	

SE	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS					
	CAS/ EC/ Index no.	REACH Registration No	Mass %	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	



Page 3 of 17

Trading name:		SOLUTION	•		
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6

50-00-0/ 200-001-8/ 605-001-00-5	01-2119488953- 20-XXXX	< 10%	formaldehyde, 37%	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Derm. Sens. 1; H317 Acute Tox. 3; H331 Mutagenicity 2; H341 Carc. 1B; H350
64-19-7/ 200-580-7/ 607-002-00-6	-	< 5 %	acetic acid, glacial	Flam. Liq. 3; H226 Skin Corr. 1A; H314
88-89-1/ 201-865-9/ 609-009-00-X	-	< 2 %	picric acid	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331

SECTI	ON 4 FIRST AID MEASURES	
4.1.	Description of first aid measures	
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	Remove person to fresh air. If breathing stops, immediately apply artificial respiration. If breathing difficulties occur, use emergency breathing apparatus. If the symptoms persist, immediately consult a physician.
	Following skin contact:	Take off immediately all contaminated clothing. Immediately wash with plenty of water and soap for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Rinse the oral cavity; drink at most 1-2 glasses of water. Do not induce vomiting. 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:	Irritation of the mucous membrane of the nose/throat may occur (burning sensation, urge to sneeze, runny nose). High concentration may cause difficult breathing, coughing fits, chest tightness, headache, vertigo and drowsiness.
	Following skin contact:	Irritation, redness with stinging and pain, skin cracking, rash, swelling, burns, blisters and delayed onset of inflammatory processes may occur.



Page 4 of 17

Trading name:		BOUIN'	N'S SOLUTION		
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6

	Following eye contact:	Depending on concentration and exposure time, mucosa stinging, lacrimation, redness and pain may occur, as well as bleeding, delayed onset of inflammatory processes and permanent eyesight damage.		
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting (possibly of bloody content).		
4.3.	Indication of any immediate medical attention and special treatment needed			
	-			

SECTIO	ECTION 5 Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	No information available			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Possible liberation of toxic carbon monoxide and formaldehyde gases due to thermal decomposition (increased temperature). Explosive mixtures of formaldehyde vapors and air also present danger.			
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, in order to prevent explosion.				
5.4.	Additional information				
	Remove sources of heat and ignition	n. Do not contaminate the environment with extinguishing media.			

SECTIO	TION 6 ACCIDENTAL RELEASE MEASURES						
6.1.	Personal precautions, protective equipment and emergency procedures						
6.1.1.	For non-emergency personnel	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. Remove all sources of sparks and ignition. Do not smoke.					
	Emergency procedures:	Mark the area using proper signs.					
6.1.2.	For emergency responders:						
	Use protective equipment; in case (see Section 8).	of inadequate ventilation use adequate airways protective equipment					
6.2.	Environmental precautions:						
	Do not dispose of in sewage, drain Protection and Rescue Directorate	age system and waterways. In case of large spillage contact National (NPRD) on 112.					



Page 5 of 17

Trading name:	BOUIN'S SOLUTION						
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6		

6.3.	Methods and material for containment and cleaning up				
6.3.1.	For creating barriers, covering and sealing:	Sand or clay barriers.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and involved materials with water.			
6.3.3.	Other information:	Do not use tools that may cause sparks.			
6.4.	Reference to other sec	tions			
	See Section 7 for information about secure handling.				
	See Section 8 for information about personal protective equipment.				
	See Section 13 for info	rmation about containment.			

SECTIO	DN 7 HANDLING AN STORAGE					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.				
	Measures to prevent aerosol and dust generation	n: Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				
	Other measures:	-				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. The	proughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incom	patibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.				
	Packaging materials:	Manufacturer's original packaging.				
	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.				



Page 6 of 17

Trading name:	BOUIN'S SOLUTION					
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6	

	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:	-

	Indu	strial se	ctor spe	cific solutions:		-				
SECTIO	N 8 F	/DOSIII	PE CON	TROLS/PERSOI	NAI D	POTECTION				
8.1.		rol para		TROES/ FERSOI	VAL F	KOTECTION				
Substance CAS No				Occupational exposure lin			Biological limit values			
						ppm		mg/m³		
Formaldehyde 50-00-0			50-00-0		2		2.5		-	
Acetic	acid, gl	acial		64-19-7		10		25 -		
Substa	nce	-								
EC No:		-		CAS No:	-					
DNEL										
						Industrial				
Route	of		Acute			Acute		Chronic		Chronic
exposi	ure:		et	effect local		fect systemic		effect local		effect systemic
Oral			-		-		-			-
Inhalat	ion		1 mg/ı (forma	m <sup>3</sup> aldehyde)	-			0.5 mg/m³ formaldehyde		9 mg/m <sup>3</sup> (formaldehyde)
Derma	I		-	-				0.037 mg/cm <sup>2</sup> (formaldehyde)		-
Critical	physic	al parar	neters: s	olubility, flamm	ability	, corrosivity:		-		
			T			Consumer				
Route of exposure:		e	Acute ffect local	et	Acute fect systemic		Chronic effect loc		Chronic effect systemic	
Oral		-		-			-		4.1 mg/kg (formaldehyde)	
Inhalation -		-		-		(	0.1 mg/m³ (formaldehyd	e)	3.2 mg/m <sup>3</sup> (formaldehyde)	



Page 7 of 17

							Pa	ge / of 1/
Trading r	name:			BOUIN'S	S SOLUTION			
Product of	code:	BOU-OT-X**	Revision date:		24.05.2019. Ve		Version: 6	
Dermal		-	-		0.012 mg/cm (formaldehyd		120 mg (forma	g/kg ldehyde)
PNEC								
Environme	ental prot	ection target		PNEC				
Fresh wate	er			0.47 mg,	/l (formaldehyde)	)		
Freshwate	er sedimer	nts		2.44 mg,	/kg (formaldehyd	le)		
Marine wa	ater			0.47 mg,	/l (formaldehyde)	)		
Marine se	diments			2.44 mg,	/kg (formaldehyd	le)		
Food chai	n			No infor	mation available			
Microorga	anisms in	sewage treatment		0.19 mg,	/l (formaldehyde)			
Soil (agric	ultural)			0.21 mg/kg (formaldehyde)				
Air				No infor	mation available			
8.2.	Exposure controls							
8.2.1.	Appro	priate engineering control	s					
	measu	ance/mixture related ares to prevent exposure a identified uses:		•	n well ventilated ot eat, drink or sn		•	•
	Structi exposi	ural measures to prevent ure:	No info	rmation a				
	, ,	isational measures to nt exposure:		anization of work in order to reduce other worker's influenceng work process.				
	Techni exposi	ical measures to prevent ure:		ure proper workspace ventilation in order to keep centration levels in air below permitted levels.				
8.2.2.	Persor	nal protection equipment						
8.2.2.1.	Eye an	d face protection:	levels o	f concent	et stick to face (EN ration in air; prote e of higher levels	ective ga	s mask t	hat covers the
8.2.2.2.	Skin p	rotection						
				/EEC and s	must be accordinated the standard EN 374.	ng to the	e EU Dire	ctive
				Glove ma	terial: nitrile rubb	er		
	Hand	protection:			ckness: 0.40 mm			
	ı ıaııu	protection.		Time until perforation: > 480 min				

Splash contact:

Gloves material: polychloroprene

Time until perforation: >240 min

Glove thickness: 0.65 mm



Page 8 of 17

Trading name:		BOUIN'S SOLUTION					
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6		

	Other skin protection:	Wear protective suit with long sleeves (EN 340) that protects from chemicals and shoes that cover the entire foot.
8.2.2.3.	Respiratory protection:	Full face mask (EN 136) or half mask (EN 140) equipped with a recommended "ABEK" filter (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

.1.	Information on basic physical and chen	nical properties	
		Value	Method
	Physical state:	liquid	No information available
	Color:	yellow	No information available
	Odor:	pungent	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):	No information available	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available



Page 9 of 17

Trading name:	BOUIN'S SOLUTION						
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6		

	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
	Oxidizing 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:	Sources of heat, sparks, ignition, and low temperature.		
10.5.	Incompatible materials:	Highly oxidizing agents, acids, bases and different metals, steel manufactured by melting, copper.		
10.6.	Hazardous decomposition products:	Carbon monoxides.		

SECTIO	SECTION 11 TOXICOLOGICAL INFORMATION						
11.1.	Information	on toxicologica	toxicological effects				
	Acute toxicit	ty:					
Route o	-	Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure time		Results
Oral exp	oosure:	No information available	rat	LD <sub>50</sub>	No information available	>200 mg/kg (formaldehyde)	
Dermal	exposure:	No information available	rabbit	LD <sub>50</sub>	No information available	>270 mg/kg (formaldehyde)	
Inhalatio exposur		No information available	rat	LC <sub>50</sub>	4 h	0.58 mg/l (formaldehyde)	
	Specific targ	et organ toxicity	/ – single expo	sure (STOT SE):			
		Specific effects		Target or	gan	Note	
Oral exp	oosure:	No information	No information available		-		-
Dermal	exposure:	No information	No information available		-		-
Inhalatio	Inhalation exposure: No information available				-		



Page 10 of 17

Trading name:	BOUIN'S SOLUTION				
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6

Aspirati	on hazard:	p	ossible respirato	ory system irritat	ion.	
Irritation	n and corrosion					
:	Ехро	sure time	Species	Evaluation	Method	Note
Skin corrosion/iri	ritation No availabl	information e	-	-	-	Causes skin irritation.
Serious irritation	to eyes: No availabl	information e	-	-	-	Causes serious eye irritation.
Sensitiz	ation					
Dermal exposure	***	allergic skin re	eaction.			
Inhalation exposi	-	rsons may disp				
	;					
Sympto	ms related to the pl	nysical, chemic	cal and toxicolog	ical characteristi	cs	
Oral exposure:  If swallowed it can cause severe burns to mouth and throat, and danger of esophagus and stomach perforation.				sophagus and		
Depending on concentration and exposure time, redness accompanied by sensation of stinging and pain may occur, as well as burns and blistering.						
Inhalation exposure:			and exposure ti n may cause for	•		tion, cough, and y tract and may
Eye exposure:		eye damage. I	Fumes may caus	e lacrimal irritati	on (tearing), bli	ndness hazard.
•	:	· ·	•			
Repeate	ed dose toxicity (sub	acute, subchr	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	No information available
Subacute dermal	No information available	No information available	No information available	No information available	No information available	No information available
Subacute Inhalation	No information available	No information available	No information available	No information available	No information available	No information available
Subchronic oral	No information available	No information available	No information available	No information available	No information available	No information available



Page 11 of 17

Trading name:	BOUIN'S SOLUTION				
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6

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

C: C-++	And the second second		CTOT DEV
Specific target organ	toxicity – repeated	exposure	(STOLKE):

	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	No information available
Subacute dermal	No information available	No information available	No information available
Subacute inhalation	No information available	No information available	No information available
Subchronic oral	No information available	No information available	No information available
Subchronic dermal	No information available	No information available	No information available
Subchronic inhalation	No information available	No information available	No information available
Chronic oral	No information available	No information available	No information available
Chronic dermal	No information available	No information available	No information available
Chronic inhalation	No information available	No information available	No information available

Carcinogenicity:	Based on IARC tests conducted on rats, tumors appeared in nose and in pharynx. Other organisms do not yield positive results. If the operator adheres to the personal hygiene rules and uses personal protection list in the exposure scenario, those hazards are non-existent.
Mutagenicity in vitro:	No information available.
Genotoxicity:	No information available.
Mutagenicity in vivo:	No information available.
Germ cell mutagenicity:	No information available.
Reproductive toxicity:	No information available.



Page 12 of 17

				9	0 0,	
Trading name:		BOUIN'S	SOLUTION			
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6	

	Summary of evaluation of the CMR properties:	No information available.
11.2.	Practical experiences:	
	Remarks relevant for classification:	No information available
	Other remarks:	No information available
11.3.	General notes:	
	-	

SECTION 12 E	COLOG	ICAL INFO	RMATION:				
12.1. Toxic	ity						
Acute (short-term) toxicity		Dose	Exposure time	Species	Metho	d Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	Pimephales promelas	-	24.1 – 41 mg/l (formaldehyde)	_
Crustacea:		EC <sub>50</sub>	48 hours	water flea (Daphnia magna)	-	2 mg/l (formaldehyde)	-
Algae/aquatic	plants	IC <sub>50</sub>	72 hours	algae	-	2. 5 mg/l (formaldehyde)	-
Other organisi	ms	-	-	-	-	-	-
Chronic (long-term) toxicity		Dose	Exposure time	e Species Method		d Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	-	-	No information available	_
Crustacea:		EC <sub>50</sub>	48 hours	-	-	No information available	-
Algae/aquatic	plants	IC <sub>50</sub>	72 hours	-	-	No information available	-
Other organis	ms	-	-	-	-	No information available	-
12.2. Persis	stence a	nd degrada	bility				
Abiot	ic degra	dation			1		ì
	Degr	adation half	f-lives	Method		Evaluation	Note
Marine water	No inf	ormation av	ailable No	information av	ailable I	No information available	-
Fresh water	No inf	ormation av	ailable No	information av	ailable I	No information available	-
Air	No inf	ormation av	ailable No	information av	ailable I	No information available	-



Page 13 of 17

Trading nam	e:						BOL	JIN'S	SOLUTION		
Product code	e:	BOU-C	)T-X**	+		Rev	ision da	ite:	24.05.2019.	Version	: 6
Soil	No	informat	ion av	ailab	le N	o inforn	mation a	vailable	e No informa	tion availab	le -
Biode	narad	ation									
% Degradation			ne (da	nve)		<u> </u>	лethod		Evaluation	n	Note
No informatio		No inforr		-	lable		formatio	n ľ	No information		Note
available						availal	ble	6	available		
12.3. Bioac	Cumu	ulative po	otontio	J							
		oefficient			/wate	r (log K	OM).				
Value		ocincient		pł		°C		thod	Evalu	ation	Note
No information available	No	informat ilable		-	-	-	No info availabl	rmatior			-
Value No informatio		tration fa	Specie rmatic	es			Method	n	Evaluati No informati available		Note
	nic ec	cotoxicity							avantable		
Valu	ıe		Dos	se		osure me	Spe	cies	Method	Evaluatio	n Note
Chronic toxici	ty on	fish	LC <sub>50</sub>		No inforr availa	mation able	No inforn availa		No information available	No informatio available	on -
Chronic toxici crustacea ( <i>Daj</i>	•	)	EC <sub>50</sub>		No inforr availa	mation able	No inform availa		No information available	No informatio available	on -
12.4. Mobi	ility in	v coil									
		predicted	d dictri	ihutic	n in A	nvironn	mental co	omnart	ments:		
KIIOW	, i i Ul	predicted	וווכוט ג	uul	) I III C		incintal C	Sinpart			
Surfa	ce te	nsion:									
			°C			oncentr			Method		Note



13.1.3.

13.1.4.

Waste treatment – relevant information:

Sewage disposal – relevant information:

Waste must not be disposed of into the sewage system.

No information available

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

Page 14 of 17

Trading	g nan	ne:			BOL	JIN'S	S SOLUTI	ON		
Produc	ct cod	le:	BOU-OT-X**	Revision date: 24.05			24.05.20	019. \	/ersion:	6
	No No information available available		No information available			nformation lable	1	-		
	Ads	orption	/ desorption							
Transpo	ort		/D coefficient nry's constant	log Kow	Ev	apora	ation rate	Met	hod	Note
Soil-wa	ter	No inf availal	formation ble	No information available		info ailabl	rmation e	No information available		-
Water-a	air	No inf availal	formation ble			No information available		No infor available		-
Soil-air	Soil-air No information available					o information No information No information No information			-	
12.5.	Resu	ults of F	PBT and vPvB asse	ssment						
	No i	nforma	ation available							
12.6.	Othe	er adve	rse effects							
	No i	nforma	ation available							
SECTIO	N 13	DISPO	SAL CONSIDERA	TIONS						
13.1.	W	aste tre	eatment methods							
13.1.1.	Pr	oduct/l	Packaging disposa	ıl:						
		ıbmit fo otectio	•	egal person autho	rized	d by t	he Ministr	y of Enviro	nmental	and Nature
13.1.2.	W	aste co	des/waste design	ations according to	) Lav	v:				
	Waste codes/waste designations according to Law:  15 01 10*: packaging that contains residual hazardous substances or is contaminated with hazardous substances									



Page 15 of 17

Trading name:		BOUIN'S	SOLUTION		
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6

13.1.5.	Other disposal recommendation	ons:
	authorized by the ministry in c	s remains into the sewage system. Submit the remains to the collectors harge. Do not dispose of the packaging into the sewage system. Submit authorized by the ministry in charge.
13.1.6.	Relevant Community provision	s:
	-	
SECTIO	N 14 TRANSPORT INFORMATIO	N .
	Transporting/shipment by road (	ADR)
UN num	nber:	Not subject to marking regulations.
UN prop	per shipping name:	-
Transport hazard class(es):		-
Packing	group:	-
Environr	mentally hazardous:	-
Special p	precautions for user:	-
	Transporting/shipment by rail (R	ID)
UN num	nber:	Not subject to marking regulations.
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	mentally hazardous:	-
Special p	orecautions for user:	-
	Inland waterway transport (ADN)	
UN num	ıber:	Not subject to marking regulations.
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	mentally hazardous:	-
Special p	precautions for user:	-
	Transporting/shipment by sea (IN	MDG)
UN num	nber:	Not subject to marking regulations.
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	mentally hazardous:	-
Special p	precautions for user:	-
Transpo	rt in bulk according to Annex II	-



Page 16 of 17

Trading name:		BOUIN'S	SOLUTION	<u> </u>	
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6

of MARPOL 73/78 and the IBC co	de:
Transporting/shipment b	y air (ICAO-TI/IATA-DGR)
UN number:	3334
UN proper shipping name:	Aviation regulated liquid, n.o.s. (formaldehyde)
Transport hazard class(es):	9
Packing group:	Ш
Environmentally hazardous:	None
Special precautions for user:	-
Further information:	ldehyde solutions, nonflammable, containing less than 25% of formaldehyde do here to the ADR regulations.

	ON 15 REGULATORY INFO						
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:	-					
		EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;					
		The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);					
	Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;					
		EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;					
		EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;					
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives					
	Information according 19 guideline)	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					



Page 17 of 17

Trading name:		BOUIN'S	SOLUTION	<u> </u>	
Product code:	BOU-OT-X**	Revision date:	24.05.2019.	Version:	6

-

SECTIO	ON 16	Other information					
16.1.	Indi	cation of changes:	-				
16.2.		previations and pnyms:	PBT Stable, bioaccumulative and toxic vPvB Strongly stable and strongly bioaccumulative. LD50 Lethal dose, 50% LC50 Lethal concentration, 50% STOT - SE Specific target organ toxicity - single exposure STOT - RE Specific target organ toxicity - repeated exposure				
16.3.		ey literature references					
16.4.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)				
Classification according to CLP			Classification procedure				
-			-				
16.5.	Rele	evant H statements (num	uber and full text)				
	H:	H226 H301+H311+H331 H302+H312+H332 H314 H315 H317 H319 H341 H350 H351	Flammable liquid and vapor.  Toxic if swallowed, in contact with skin or if inhaled.  Harmful if swallowed, in contact with skin or if inhaled.  Causes severe skin burns and eye damage  Causes skin irritation.  May cause allergic skin reaction.  Causes serious eye irritation  Suspected of causing genetic defects.  May cause cancer.  Suspected of causing cancer.				
16.6.	Trai	ning advice:	-				
16.7.	Fur	ther 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.				

Δ	N	١N	J	F	X	•

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 

\_



Page 1 of 17

				90	. •
Trade name:		HEMATOXYLI	N, WEIGERT A		
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4

SECTI	ON 1. Identification of the	e substance/n	nixture and	of the company/undertaking		
1.1.	Product identifier					
	Trade name:	HEMATOXYLII	N, WEIGERT	A		
	Chemical name:	-				
	Catalogue number:	HEMA-OT-X**				
1.2.	Relevant identified uses of the substance or mix			re and uses advised against		
	Uses:		For use	in Hematoxylin W kit.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3.	Details of the supplier o	Details of the supplier of the safety data sheet				
	Supplier:	BioG	nost Ltd.	Ltd.		
	Address:	Med	jugorska 59,	a 59, Zagreb		
	Telephone number:	+385	5 1 2409997	09997		
	Telefax:	+385	5 1 2404039	039		
	e-mail of competent pe	rson: <u>msds@biogno</u>		<u>ıost.hr</u>		
	National contact:	-				
1.4.	Emergency telephone number					
	National Protection and	Rescue Direct	orate:	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 F	Regulation (EC) No	1272/2008 (CLP)				
	Hazard class and ca	Hazard class and category code: Hazard statements*:					
	Flam. Liq. 2		H225				
	Skin. Sens. 1		H317				
	Canc. 2		H351				
2.1.2.	Additional information						
	-						
*For fu	ll text of Hazard- and EU Haza	ırd-statements: see	e Section 16				
2.2.	Label elements						
	Product identification: HEMATOXYLIN, WEIGERT A						
	Identification number:	-					



Page 2 of 17

Trade name:		HEMATOXYLI	<u> </u>		
Product code: HEMA-OT-X**		Date of compilation:	03 June 2019	Version:	4

	Authorisation number:	-
	Hazard pictograms:	GHS02  GHS07  GHS08
	Signal word:	Danger
	Hazard statements:	<ul><li>H225 Highly flammable liquid and vapor.</li><li>H317 May cause an allergic skin reaction.</li><li>H351 Suspected of causing cancer.</li></ul>
	Precautionary statement:	P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke.  P280 Wear protective gloves/protective clothing/eye/protection/face protection.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Supplemetal hazard information (EU)	-
2.3.	Other hazards	

SECTION 3. Compo	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification (REGULATION) (EC) No 1272/2008 (CLP)				
107-21-1/ 203-473-3/ 603-027-00-1	01-2119456816- 28-xxxx	< 10	ethylene glycol	Acute Tox. 4, H302				



Page 3 of 17

Trade name:		HEMATOXYLIN, WEIGERT A						
Product code:	HEMA-OT-X**	Date o	f compilation:	03 June 201	9	Version:	4	
64-17-5/ 200-578-6/ 603-002-00-5 121-79-9/ 204-498-2/ 607-198-00-3 123-31-9/ 204-617-8/ 604-005-00-4	01-2119457610- 43-xxxx -	≥ 50 < 3 < 5	ethanol propyl ga hydroqui	none E	Acute Skin S Acute Canc. Eye D Skin S Aqua	Liq. 2, H225 e Tox. 4, H302 Sens. 1 H317 e Tox. 4; H302 . 2;H351 Dam. 1; H318 Sens. 1; H317 tic Acute 1; H4		

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. Thoroughly wash with water for 15 minutes.
	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 15 minutes with the eyelids held wide open.
	Following ingestion:	Rinse the mouth thoroughly with water. If the afflicted person is conscious, provide them with large amounts of water. Consult a physician.
	Self-protection of the first aider	-
4.2.	Most important symptoms and eff	ects, both acute and delayed
	Following inhalation:	May cause eye irritation and upper respiratory system (stinging sensation, irritation). Bronchoconstriction is possible. Possible symptoms include CNS symptoms such as headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration.
	Following skin contact:	Defatting, dry skin.
	Following eye contact:	Splatter may cause discomfort, stinging sensation, conjunctival redness, corneal surface lesions.
	Following ingestion:	It may lead to occurrence of strong sensation of stinging, headached vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration. If denaturants are present, dyspepsis may occur (such as vomiting).



Page 4 of 17

Trade name:	HEMATOXYLIN, WEIGERT A				
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4

No information available

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	Water jet			
5.2.	Special hazards arising from the subs	tance or mixture			
	Hazardous combustion products:	Incomplete combustion of the product.			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit con Cool closed containers exposed to fir	npressed air breathing apparatus and fireproof clothing. e with water spray or vapor.			
5.4.	Additional information				
	-				

SECTIO	N 6. Accidental release r	neasures				
6.1.	Personal precautions, pre	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency pers	sonnel				
	Protective equipment:		When disposing of small quantities use protective clothing. When disposing of large quantities use self-contained open-circuit compressed air breathing apparatus or self-contained closed-circuit air breathing apparatus.			
	Accident prevention met	thods:	Secure a safety zone, remove all ignition sources, and in case of an accident inform the Emergency service (112) and the manufacturer or sender. Position a prohibition sign with symbols of flame and devices that cause sparks.			
	Emergency procedures:		Remove or neutralize all factors that may exacerbate the condition, use all allowed means of containing the situation and use recommended means of personal protection.			
6.1.2.	For emergency responde	ers:				
	Self-contained open-circ dissipation (fireproof clo	•	ed air breathing apparatus, a set for protecting the body from heat			
6.2.	Environmental precautio	ns:				
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.					
6.3.	Methods and material fo	or containmen	t and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protec	Sand protective barrier or barriers made of similar materials			
6.3.2.	Cleaning up:	Sawdust, sar	nd, mineral adsorbents			



Page 5 of 17

					<b>.</b>
Trade name:		HEMATOXYLI			
Product code: HEMA-OT-X**		Date of compilation:	03 June 2019	Version:	4

6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112).
6.4.	Reference to other section	ons
	-	

SECTIO	ON 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Keep away from sources of ignition and heat. Do not use tools that cause sparks.			
	Measures to prevent aerosol and dust generation:		Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		-			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	•	a well-ventilated place. Keep away from d direct solar radiation.			
	Packaging materials:	Manufa	cturer's original packaging.			
	Requirements for storage rooms and vessels:		vay from food and drink. Keep the ers tightly closed.			
	Advices for storage equipment:	must be drain th	rage must be made of hard material; floors e resistant to chemicals. There must be no at directly leads into sewage system. Secure ventilation.			
	Further information on storage conditions:	-				
7.3.	Specific end use(s)					
	Recommendations: -					
	Industrial sector specific solutions: -					

SECTION 8. Exposure controls/personal protection								
8.1. Control parameters	Control parameters							
Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values				
		ppm	mg/m³	-				
Ethanol	64-17-5	1000/-	1900/-	-				
Ethylene glycol	107-21-1	20/40	52/104	-				



Page 6 of 17

								ı ago	0 01 17	
Trade name: HEI					HEMATOXYI	IN, WEIGER	ΤA			
Product code	e:	HEMA-0	OT-X**	Date c	of compilation:	03 June 2	2019	Version:	4	
				·	_	i		!	į	
Hydroquinone 123-31-9					-/05	-/-		-		
Substance:	_			3						
EC No:	_		CAS No:	_						
DNEL										
					Industrial					
Route of expe	osure	•	Acute		Acute	Chron			nronic	
- Noute or exp		effe	ect local	effe	ct systemic	effect lo	ocal	effect	systemic	
Oral		-		-		-		-		
Inhalation		-		-		35 mg/ kg (ethylene gly	col)	950 mg/n	n³ (ethanol)	
								343 mg/k	g (ethanol)	
Dermal		-		-		-			g (ethylene	
Critical physical parameters: solubility, flammability						glycol)				
Critical physica	al para	ameters: s	solubility, fla	ımmability	·					
					Consumer					
Route of expe	osure	:	Acute ect local	offo	Acute	Chron effect lo			nronic : systemic	
Oral		- 6116	ect local	-	ct systemic	-	Cai	- enect	. systemic	
Orai				<u> </u> -		7 mg/kg				
Inhalation		-		-		(ethylene glycol)			n <sup>3</sup> (ethanol)	
									g (ethanol)	
Dermal		-		-		-		glycol)	g (ethylene	
PNEC				<u> </u>				1 9.7 00.7		
Environmental	l prote	ection tar	 get		PNEC					
	•		<u>,                                      </u>		0.96 mg/	l (ethanol)				
Fresh water					_	ethylene glycc	ol)			
Freshwater sed	dimon	ıtc.			3.6 mg/kg	g (ethanol)				
riesiiwatei set	umen	its			37 mg/kg	g (ethylene gly	col)			
Marine water						l (ethanol)				
					1 mg/l (e	thylene glycol)				
	ents					g (ethylene gly				
Marine sediments  Food chain  Microorganisms in sewage treatment				nation availabl						
Microorganisn	ns in s	sewage tr	eatment			/l (ethylene gl	ycol)			
Soil (agricultur	ral)					kg (ethanol) kg (ethylene g	lycol)			
				no information available						



Page 7 of 17

Trade name:		HEMATOXYLI			
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4

8.2.	Exposure controls						
8.2.1.	Engineering measures						
	Substance/mixture related measure prevent exposure during identified		Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prevent exposure:		No information available				
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:		See Section 7.2				
8.2.2.	Personal protection equipment						
8.2.2.1.	Eye and face protection:	levels	Safety glasses that stick to face (EN166) 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						
0.2.2.2.	Hand protection:	(0.4 m gloves Proted	In case of coming into thorough contact, use butyl rubber gloves (0.4 mm thick). In case of contact with drops, use polychlorene gloves (0.1 mm thick).  Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374.				
	Other skin protection: spill suita		During everyday work use cotton clothing and suitable footwear, such as rubber boots or shoes that cover the entire foot. In case o 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:		concentration level exceeds the GVI values, use full gas mask ped with brown filter A.				
8.2.2.4.	Thermal hazards:	No inf	formation available				
8.2.3.	Environmental exposure controls						
	Substance/mixture related measures to prevent exposure:	See	e Section 6				
	Structural measures to prevent exposure:	Use	e modern equipment.				
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.				
	Technical measures to prevent		See Section 6				

#### **SECTION 9. Physical and chemical properties**

9.1. Information on basic physical and chemical properties



Page 8 of 17

Trade name:	HEMATOXYLIN, WEIGERT A					
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4	

		Value	Method
	Physical state:	liquid	No information available
	Colour:	brown	No information available
	Odour:	ethanol like	No information available
	Odour 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:	20°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
	Solubility(ies):	Completely soluble in water	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
.2.	Other information		

SECTIO	SECTION 10.: Stability and reactivity					
10.1.	Reactivity:	The product is stable under normal working and storage conditions.				
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:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.				
10.4.	Conditions to avoid:	High temperatures, ignition sources, open flame.				
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.				



Page 9 of 17

	Trade name:		HEMATOXYLIN, WEIGERT A					
F	Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4		

10.6. Hazardous decomposition products: Non-degradable if used in the described manner.

SECTION 11. To	xicological informa	ition						
11.1. Informa	tion on toxicologica	l effects						
Acute to	oxicity:	1						
Route of exposure:	Method	Species	Effectiv LD <sub>50</sub> /L ATE <sub>m</sub>	C <sub>50</sub> or	Expos time		Results	
Oral:	No information available	rat	LD <sub>50</sub>		-		060 mg/kg mg/kg (eth	(ethanol) ylene glycol)
Dermal:	No information available	rabbit	LD <sub>50</sub>		-		>3.500m (ethylene g	5 5
Inhalation:	No information available	rat	LC <sub>50</sub>		4 h (ethano	l) 2	0.000 mg/l (	(ethanol)
Specific	target organ toxicit	y – sinale ex	posure (ST	OT SE):				
	3 3	cific effects		i	Target o	organ		Note
Oral:	No information	available		No info	rmation	available	-	
Dermal:	No information	available		No information available -			-	
Inhalation:	No information	available		No information available -				
Respirat	ory irritation:		May cause	e respirat	ory irrita	tion.		
Irritatior	n and corrosion							
	Exposure	time	Species	Evalua	ation	Method	1	Note
Skin corrosion/irritatio	on:	-		-	-		No available	information
Serious eye damage/irritation	<b>-</b>	-		-	_		No available	information
Sensitiza	ation:							
Skin sensitization		available						
Respiratory sensitization:	No information							
Cumpto	ms rolated to the ph	weical cham	uical and to	vicologia	al chara	ctorictics		
Oral exposure:	It may lead to closs of consciour present, dysper	ccurrence of	f strong se exposure to	nsation o	of stingin levels of	g, headache,	-	



Page 10 of 17

				9	<del>• • • • • • • • • • • • • • • • • • • </del>
Trade name:		HEMATOXYLI	N, WEIGERT A		
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4

Dermal exposure	: Defatting, dry	skin.				
Inhalation exposure:	Bronchoconsti	riction is possib tigo, intoxicatio	ole. Possible sym	y system (stingir ptoms include C nsciousness afte	NS symptoms su	uch as
Eye exposure:	Splatter may c lesions.	ause discomfo	rt, stinging sens	ation, conjunctiv	al redness, corne	eal surface
Repeate	ed dose toxicity (su	bacute, subchr	onic, chronic)			
<u> </u>	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	_
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute Inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Specific	target organ toxic	ity – repeated e	exposure (STOT	RE):		
		Specific effect	•	Target org	jan	Note



Page 11 of 17

Trade name:		HEMATOXYLI	N, WEIGERT A		
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4

Subacı	ute dermal	No information available	No information available	-			
Subacı	ute inhalation	No information available	No information available	-			
Subchr	ronic oral	No information available	No information available	-			
Subchr	ronic dermal	No information available	No information available	-			
Subchr	ronic inhalation	No information available	No information available	-			
Chroni	c oral	No information available	No information available	-			
Chroni	c dermal	No information available	No information available	-			
Chroni	c inhalation	No information available	No information available	-			
	CMR effects (ca	rcinogenicity; mutagenicity; re	eproductive toxicity)				
	Carcinogenicity	<u> </u>	No information available				
	Mutagenicity in-vitro:		No information available				
	Genotoxicity:		No information available				
	Mutagenicity in	n-vivo:	No information available				
	Germ cell muta	genicity:	No information available				
	Reproductive to	oxicity:	No information available				
	Summary of properties:	evaluation of the CMR	-				
11.2.	Practical experi	ences:					
11,2,	-	nt for classification:	No information available				
	Other remarks:	TIC TOT CIASSIFICATION.	No information available				
	Other remarks.		INO IIIIOIIIIAUOII AVAIIADIE				
11.3.	Note:						
	-						

SECTION 12. Ecologi	cal informat	ion:				
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Fish	No information available	72.860 mg/l (ethylene glycol)	-
Crustacea:	EC <sub>50</sub>	48 hours	water flea	No information available	>100 mg/l (ethylene glycol)	-



Page 12 of 17

Trade name:		HEMATOXYLII	N, WEIGERT A		
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4

Algae/aquatic p	lants	IC <sub>50</sub>	72 hours	algae	No information available	6.500- 13.000 mg/l (ethylene glycol)	-	
Microorganisms	•	-	-	No information available	No information available	No information available	-	
Chronic (long-te toxicity	erm)	Dose	Exposure time	Species	Method	Evaluation	Not	:e
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-	
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-	
Algae/aquatic p	lants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-	
Microorganisms	5	-	-	-	_	-	-	
12.2. Persiste	ence a	nd degrada	bility					
Abiotic			-					
ADIOUC	: degra	dation						
ADIOLIC		idation egradation	half-lives	Meth	od	Evaluati	on	Note
:	D			Meth No information		Evaluati No information a		Note
Marine water	D <sub>i</sub> No ir	egradation	available		available		available	Note - -
Marine water Fresh water	Do in No ir	egradation nformation	available available	No information	available available	No information a	available available	-
Marine water Fresh water Air	No ir No ir No ir	egradation nformation nformation	available available available	No information	available available available	No information a	available available available	-
Marine water Fresh water Air	No ir No ir No ir No ir	egradation nformation nformation nformation nformation	available available available	No information No information	available available available	No information a No information a No information a	available available available	-
Marine water Fresh water Air Soil	No ir No ir No ir No ir	egradation nformation nformation nformation nformation	available available available available	No information No information	available available available available	No information a No information a No information a	available available available	-
Marine water Fresh water Air Soil Biodeg % Degradation	No ir No ir No ir No ir	egradation information information information information	available available available available	No information No information No information No information	available available available available	No information a No information a No information a No information a	available available available available	-
Marine water Fresh water Air Soil Biodeg	No ir No ir No ir No ir	egradation information information information information	available available available available	No information No information No information No information	available available available available Evalu	No information a No information a No information a No information a	available available available available	-

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

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



									Page	130	ו וכ
Trade nam	e:			Н	IEMA	TOXYLI	N, WEIG	ERT A			
Product co	de:	HEMA-OT-X**	D	ate of c	omp	ilation:	03 Jur	e 2019	Version:		4
Bio	concentr	ation factor (BCF	)								
Value		Species		N	Metho	od	Eva	luation		Not	te
No informat available		No information available		No info availab		ion	No infor available		No info availab		ion
Ch	ronic eco	toxicity							·		
i	alue	Dose		osure me	S	pecies	Met	hod	Evaluatio	n	Note
Chronic toxi	icity on fi	sh LC <sub>50</sub>	No inform availab			rmation lable	No inform availab	ation	No informat available	ion	-
Chronic toxi crustacea (D	-	EC <sub>50</sub>	No inform availab			rmation lable	No inform availab	ation	No informat available	ion	-
12.4. Mo	bility in s	soil									
		redicted distribut	ion in e	nvironm	nental	comparti	ments:				
	······································	tion available				<b>.</b>					
Sui	rface tens	sion:									
	Value	°C	Co	oncentra	ition		Method			Note	
		No information available	No	informa ilable		No info	ormation		-		
Ad	sorption	/ desorption									
Transport	A/	D coefficient nry's constant	lo	og Kow		Evapora	tion rate	Me	thod		Note
Soil-water	No availab	information	No availa	informa <sup>.</sup> ible	tion	No info		No in available	formation	-	
Water-air	No availab	information le	No availa	informa ible	tion	No info		No in available	formation	_	



Page 14 of 17

Trade name:		HEMATOXYLIN	N, WEIGERT A		
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4

Soil-air	No informatio available	No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB ass	essment			
	No information available				
12.6.	Other adverse effects				
	No information available				
SECTIO	N 13. Disposal consideration	ons			
13.1.	Waste treatment method	S			
13.1.1.	Product/Packaging dispo	sal:			
	Submit for disposal to the Protection.	e legal person authori	zed by the Ministry	of Environmental an	d Nature
13.1.2.	Waste codes/waste desig	nations according to	Law:		
	No information available				
13.1.3.	Waste treatment – releva	nt information:			
	No information available				
13.1.4.	Sewage disposal – releva	nt information:			
	Waste must not be dispo		e system.		
13.1.5.	Other disposal recommer	ndations:			
	Do not dispose of the pro authorized by the ministr the packaging to the coll- ignition may occur.	y in charge. Do not di	spose of the packag	jing into the sewage	system. Submit
13.1.6.	Relevant Community pro	visions:			
	-				
SECTIO	N 14. Transport information	n			
	Transporting/shipment by i	oad (ADR)			
UN num	nber:	1170			
UN prop	per shipping name:	Ethanol solution	n		
Transpo	ort hazard class(es):	3			



Page 15 of 17

Trade name:		HEMATOXYLIN	I, WEIGERT A	_	
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4

No information available  - D) 1170 Ethanol solution 3 II No information available
1170 Ethanol solution 3 II
1170 Ethanol solution 3 II
Ethanol solution  3 II
3 II
П
No information available
-
waterways (ADN)
1170
Ethanol solution
3
П
No information available
-
MDG)
1170
Ethanol solution
3
П
No information available
-
-
AO-TI/IATA-DGR)
1170
Ethanol solution
3
П
No information available
-



Page 16 of 17

Trade name:	HEMATOXYLIN, WEIGERT A				
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4

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:	-			
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;  The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);  EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;  EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;  EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;  Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives			
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-			
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Transport of Hazardous Substances Act			
5.2.	Chemical safety assessme	ent			
	None				

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



Page 17 of 17

					<b>U</b>
Trade name:	HEMATOXYLIN, WEIGERT A				
Product code:	HEMA-OT-X**	Date of compilation:	03 June 2019	Version:	4

-			-
16.5.	Rele	evant H statements (num	ber and full text)
	H:	225 302 317 318 341 351 400	Highly flammable liquid and vapor. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause cancer. Very toxic to aquatic life.
16.6.	Trai	ning advice:	-
16.7.	16.7. Further information:		** "X" in the product code marks different volumes (different packaging 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:	FERRI REAGENT, WEIGERT B				,
Product code: F		FR-OT-X**	Revision date:	03 June 2019	Version:	4

SECTI	ON 1 IDENTIFICATION	OF THE SUB	STANCE/MIX	XTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	FERRI REA	GENT, WEIGE	RT B		
	Chemical name:	-				
	Catalogue number:	FR-OT-X**				
1.2.	Relevant identified us	es of the sub	stance or mix	ture and uses advised against		
	Uses:		For use in	Hematoxylin W kit.		
	Uses advised against:		Only the ic	dentified uses are advised.		
	Reason why uses advi	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:	Е	BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent person: r		msds@biognost.hr			
	National contact:	-				
1.4.	Emergency telephone number					
	National Protection and Rescue Dire		rectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ION 2 HAZARDS INFORMATION						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification (REGULATION (E	C) No. 1272/2008	(CLP)				
	Hazard class and category code: Hazard statements*:						
	Not identified as hazardous su	bstance.	-				
2.1.2.	Additional information						
	-						
*For ful	ll text of Hazard- and EU Hazard	-statements: see S	ection 16				
2.2.	Classification according to EC	Directive Nr. 1272,	/2008 CLP)				
	Product identification:	FERRI REAGE	NT, WEIGERT B				
	Identification number:	-					
	Authorization no.: -						
	Hazard pictograms:	-					
	Signal word:	-					

.

Page 2 of 16

Tr	rading name:		}			
Pr	roduct code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4

	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)					
7782-61-8/ 616-509-1/ -	-	< 0.5%	ferric nitrate nonahydrate	Skin Irrit. 2; H315 Eye Irrit. 2; H319					
7647-01-0/ 231-595-7/ 017-002-00-2	01-2119484862- 27-xxxx	< 1%	hydrochloric acid, 37%	Skin Corr. 1A; H314 Acute Tox. 3; H331					

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

Page 3 of 16

Trading name:		3	<u> </u>		
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4

	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 <sub>2</sub> Large fire - water spray or alcohol-resistant foam					
	Unsuitable extinguishing media: water jet					
5.2.	Special hazards arising from the substance or mixture					
	Hazardous combustion products: No information available					
5.3.	Advice for firefighters					
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.  Cool closed containers exposed to fire with water spray or vapor.					
5.4.	Additional information					
	Remove sources of heat and ignition.					
	Do not contaminate the 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 armembers without protective equipment. Remove all so 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:					
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4

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:	vent	o in tightly closed and upright set containers in a well ilated storage rooms, and away from sources of heat, ight, and other incompatible substances.		
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:		o away from food and drink. Keep the containers		
	Advices for storage equipment:	be re	storage must be made of hard material; floors must esistant to chemicals. There must be no drain that ctly leads into sewage system. Secure proper ilation.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials Section 9).			
7.3.	Specific end use(s)				
	Recommendations:	_			
	Industrial sector specific solutions:	-			



Page 5 of 16

Trading name:	FERRI REAGENT, WEIGERT B						
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4		

SECTION 8 EXPOSU	RE CON	TROLS/PER	SONAL	PROTECTION				
8.1. Control para	meters							
Substance				•	exposure limit term values	Biological limit values		
				ppm	mg/m³			
Hydrogen chloride		7647-0	1-0	5/10	8/15	-		
Substance - name:								
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	neters: s	olubility, fla	mmabilit	y, corrosivity:	-			
				Consumer				
Route of	ļ ,	Acute		Acute	Chron	nic Chronic		
exposure:	effe	ect local	effe	ct systemic	effect lo	ocal effect systemic		
Oral	-		-	-		-		
Inhalation	-		-		-	-		
Dermal	-		-		-	-		
PNEC								
Environmental protect	tion tar	get			PNEC			
Fresh water					No information available			
Freshwater sediments	5				No information available			
Marine water					No information available			
Marine sediments No informa								
Food chain  Microorganisms in sewage treatment				No information available				
Microorganisms in sewage treatment				No information available				
Soil (agricultural)					mation availabl			
Air				No infor	mation availabl	ie .		
0.2		1-						
8.2. Exposure	e contro	IS						

## SAFETY DATA SHEET \*\*Regulation (EC) No. 1907/2006

Page 6 of 16

Trading name:	FERRI REAGENT, WEIGERT B				
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4

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 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) (I visor.					
8.2.2.2.	Skin protection						
			ntective gloves must be according to the EU Directive 2016/425/EEC and ndard EN 374.  Glove material: nitrile rubber  Glove thickness: ≥0.50 mm  Break through time: >480 min				
	( )ther skin protection:		ear antistatic clothing made of natural fibers (such as cotton) with long eves (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 pre 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 pre exposure:	event	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:	pale yellow	No information available	

Page 7 of 16

Trading name:		FERRI REAGENT, WEIGERT B				
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4	

Odor:	neutral	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):	No information available	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
 Oxidising properties:	No information available	No information available
Other information		

SECTIO	ECTION 10 STABILITY AND REACTIVITY				
10.1.	Reactivity:	See subsections 10.3 through 10.5.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.			
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.			
10.5.	Incompatible materials:	Aluminum.			
10.6.	Hazardous decomposition products:	No information available.			

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

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

Page 8 of 16

Trading name:	FERRI REAGENT, WEIGERT B				
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4

Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposu	ıre time	Results
Oral exposure:	No information available	-	LD <sub>50</sub>		_	-
Dermal exposure:	No information available	-	LD <sub>50</sub>		-	-
Inhalation exposure:	No information available	-	LC <sub>50</sub>		-	-
Specific targ	get organ toxicity – si	ngle exposure (	STOT SE):			
	Specifi	c effects	Targe	t organ		Note
Oral exposure:	No information	available	No informati	on available	e -	
Dermal exposure:	No information	available	No informati	on available	e -	
Inhalation exposure:	No information	available	No informati	on available	e -	
Respiratory	irritation:	No infor	mation available			
Irritation an	nd corrosion					
	Exposure time	Species	Evaluation	Method		Note
Skin irritation:	-	rabbit	-	-	-	
Eye irritation:	-	rabbit	-	-	-	
Sensitizatio	n					
Dermal exposure:	No information avail	able				
Inhalation exposure:	No information avail	able				
Symptoms	related to the physica	l, chemical and	toxicological chara	acteristics		
Oral exposure:	Swallowing may c sensation; higher In case of vomiting concentration may	levels of concen g, aspiration cau	tration may cause uses coughing, diff	nausea, ab	dominal p	pain and vomiting.
Dermal exposure:	Slight irritation. At may cause drying,	•			likely. Lo	ng-term exposure
Inhalation exposure:	Inhalation of large coughing, sneezin			ely ventilate	d perimet	ter may cause
Eye exposure:	Direct eye contact sensation.	may cause slig	ht to moderate irri	tation, lacri	mation ar	nd burning

Page 9 of 16

Trading name:	FERRI REAGENT, WEIGERT B				
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4

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		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 information available		No information available	No information available	on -
Subchronic inhalation	No information available	No information available	No informati available		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 information available	on -
Specific	target organ toxici	<u> </u>	xposure (S	TOT F			<b>N.</b> .
Subacute oral		Specific effects ation available		Target organ  No information available			Note
Subacute orai		ation available					_
		ation available		No information available  No information available			_
Subchronic oral		ation available		No information available			-
Subchronic derm		ation available		No information available			-
Subchronic inhal	ation No informa	ation available		No i	nformation avai	lable	-
Chronic oral	No informa	ation available		No information available		_	

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

Page 10 of 16

					90 -0 0.	
Trading name:		FERRI REAGI	ENT, WEIGERT B			
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4	

Chron	ic dermal	No informa	tion available	,	No information available	-	
Chron	ic inhalation	No informa	tion available	ion available No information available		-	
	CMR effects	(carcinogenicity	, mutagenicit	ty, repro	ductive toxicity)		
	Carcinogenic	city:	Current	studies c	on test animals did not indicate ca	rcinogenic effects.	
	Mutagenicity	ı in-vitro:	Current	in vitro	tests did not indicate mutageni	c effects.	
	Genotoxicity	•	No infor	mation a	available		
	Mutagenicity	ı in-vivo:	Current	in vivo	tests did not indicate mutagenio	c effects.	
	Germ cell mu	utagenicity:	No information available				
	Reproductive	e toxicity:	No toxion organs.	city on	reproductive 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 info	ormation available		
	Other remark	ks:		No info	ormation available		
11.3.	General note	es:					
	_						

SECTION	12 ECOLOGICAL INFORMATION	ON:

#### 12.1. Toxicity Exposure Acute toxicity **Species** Method Dose Evaluation Note time No information Fish $\mathsf{LC}_{50}$ 96 hours available No information Crustacea: $EC_{50}$ 48 hours available No Algae/aquatic plants $IC_{50}$ 8 days information available Microorganisms $LC_{50}$ 72 hours Exposure Chronic toxicity Dose **Species** Method Evaluation Note time

Trading name:		FERRI REAG	ENT, WEIGERT B		je 11 of 16
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4
		No information	No No	n information	

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

#### 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	-

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

#### Bioaccumulative potential 12.3.

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

Value	Concentration	рН	°C	Method	Evaluation	Note
-	No information available	-	_	No information available	No information available	1

#### Bioconcentration factor (BCF)

Value	Species	Species Method		Note
No information available				

Page 12 of 16

Tradino	g name:				FERRI	REAGEI	NT, WEI	GERT B	ı ag	e 12 01 10
	ct code:	FF	R-OT-X**		ision o	·····	03 June		Version:	4
									<u> </u>	
	Chronic	ecoto	xicity							
	Value		Dose	Exposure time	Sp	ecies	Meth	od	Evaluation	Note
Chronic	toxicity	on fish	LC <sub>50</sub>	No information available		rmation able	No informa availab	ation	o information vailable	-
	toxicity ea ( <i>Daph</i>		EC <sub>50</sub>	No information available	1	rmation able	No informa availab	ation	o information vailable	-
12.4.	Mobility	y in so	il							
		<del>-</del>	dicted distributi	on in environ	mental	compart	tments:			
	No info	rmatic	n available							
	Surface	tensic	1			ı				
	Valu	ie	°C	Concenti	ration		Metho	d	Note	
	No informa availabl		No information available	No inform available	ation	No inf availa	formatior ble	1	-	
	Adsorp	tion / c	desorption							
Transpo	ort		coefficient /'s constant	log Kow	E	vaporati	on rate	Method		Note
Soil-wa	ter No	o ailable	information	No informat available		lo inforn vailable	nation	No info	_	
Water-a	Water-air No available		information	No informat available		lo inforn vailable	nation	No info	-	
Soil-air No available		information	No informat available		lo inforn vailable	nation	No info	i <b>-</b>		
12.5.	Results	of PBT	and vPvB asses	sment						
	No info	rmatic	n available							
12.6.	Other a	dverse	effects							
No information available										

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

Page 13 of 16

Trading name:		FERRI REAG	ENT, WEIGERT E	3		
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4	

SECTIO	N 13 DISPOSAL CONSIDER	ATIONS				
13.1.	Waste treatment methods	3				
	1					
13.1.1.	Product/Packaging dispos	sal:				
	Submit for disposal to the Protection.	legal person authorized by the Ministry of Environmental and Nature				
13.1.2.	Waste codes/waste design	nations according to Law:				
	No information available					
13.1.3.	Waste treatment – relevar	nt information:				
13.1.3.	No information available	it information.				
	TVO IIIIOITIIation available					
13.1.4.	Sewage disposal – relevar	nt information:				
	Waste must not be dispos	sed of into the sewage system.				
13.1.5.	Other disposal recommen	dations:				
	authorized by the ministry	duct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge. Do not dispose of in places where				
13.1.6.	Relevant Community prov	isions:				
	-					
SECTIO	N 14 TRANSPORT INFORM	ATION				
	Transporting/shipment by r	oad (ADR)				
UN num	ıber:	Not subject to transport regulations.				
UN prop	per shipping name:	-				
Transpo	rt hazard class(es):	-				
Packing group:		-				
Environmentally hazardous:		-				
Special <sub>I</sub>	precautions for user:	-				
	Transporting/shipment by r					
UN num		Not subject to transport regulations.				
	per shipping name:	-				
Transpo	rt hazard class(es):	-				

Page 14 of 16

					, = =	
Trading name:	FERRI REAGENT, WEIGERT B					
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4	

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 s	ea (IMDG)
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 a	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 hazardous:	-
Special	precautions for user:	-
Further	information: The prod	uct is not subject to classification.

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

## SAFETY DATA SHEET \*\*Regulation (EC) No. 1907/2006

Page 15 of 16

Trading name:		FERRI REAGE	NT, WEIGERT B		
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4

	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;  The European Commission Regulation No. 453/2006 of 2010 on changes
		and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);
		EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;
		EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;
		EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;
		Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 1999 guideline)	9/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessmen	
	None	

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

Page 16 of 16

Trading name:		FERRI REAG	ENT, WEIGERT B	}	
Product code:	FR-OT-X**	Revision date:	03 June 2019	Version:	4

H: H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
Training advice:	-
	** "X" in the product code marks different volumes (different packagings of the product)
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.
	H315 H319 H331 Training advice:

#### ANNEX:

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 



Page 1 of 16

Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3

SECTI	ION 1: Identification of t	he substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	BIEBRICH S	CARLET-A	CID FUCHSIN REAGENT	
	Chemical name:	-			
	Catalogue number:	BSAF-OT-X	BSAF-OT-X**		
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against	
	Uses:		For use v	with Masson Trichrome and Masson-Goldner Trichrome kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advis	sed against:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnos	BioGnost Ltd.  Medjugorska 59, Zagreb  +385 1 2409997	
	Address:		Medjugo		
	Telephone number:		+385 1 2		
	Telefax.:		+385 1 2	2404039	
	e-mail of competent p	erson:	msds@b	oiognost.hr	
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection an	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification						
2.1	Classification of the substance or mixture						
2.1.1	Classification according to Reg	ulation (EC) No 12	272/2008 (CLP)				
	Hazard class and category code: Hazard statements*:						
	Not identified as hazardous sul	bstance.	-				
2.1.2.	Additional information						
	-						
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16				
2.2	Label elements						
	Product identification:	BIEBRICH SCAR	LET-ACID FUCHSIN REAGENT				
	Identification number: -						
	Authorization number:	-					
	Hazard pictograms:	-					



Page 2 of 16

Trading name:		UCHSIN REAGEN	Г		
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3

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

SECTION 3. Composition/information on ingredients								
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
_	_	-	Contains no hazardous substances	-				

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



Page 3 of 16

Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT						
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3		

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

SECTI	ECTION 5. Firefighting measures					
5.1	Extinguishing media					
	Suitable extinguishing media: water spray, dry powder, CO <sub>2</sub> 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	ures					
6.1	Personal precautions, protective	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel						
	Protective equipment:	Use personal protective equipment (see Section 8).					
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.					
	Emergency procedures:	mergency procedures: Mark the area using proper signs.					
6.1.2.	For emergency responders:						
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).						
6.2	Environmental precautions:						
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.						
6.3	Methods and material for cont	ainment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.					
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.					



Page 4 of 16

Trading name:		BIEBRICH SCARLET-ACID FUCHSIN REAGENT					
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3		

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

SECTIO	ON 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation	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 incor	ompatibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set container well ventilated storage rooms at temperatures of from 15 to 25 °C. Protect from heat and direct states				
	Packaging materials:	Manufactu	ırer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away	r from food and drink. Keep the containers sed.			
	Advices for storage equipment:	The storage must be made of hard material; flormust be resistant to chemicals. There must be that directly leads into sewage system. Secure ventilation.				
	Further information on storage conditions:	Do not place the unused material in the storage roo 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**



8.2

8.2.1.

Exposure controls

Appropriate engineering controls

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

									Page 5 of 1	.6	
Trading name:		BIEBRI	CH SC	ARLET-A	ACID F	UCHSI	N REAGEN	Γ			
Product code:	BSAF-O	BSAF-OT-X** Date of		ate of	f compilation: 27 June 2		ıne 2019	Version:	3		
8.1 Control p	arameters										
					pational e						
Substance	9	CAS No			ues/short			Biolog	gical limit value	S	
				р	pm	mg,	/m³				
-					-	-		-			
Substance name:	-										
EC No:	-	CAS No	: -								
DNEL	1		1								
				Indu	ustrial						
Route of	Acu	te	Acu	te		Chro	nic		Chronic		
exposure:	effect	local	effect sy	stemic		effect	local		effect systemic		
Oral	-		-		-	-		-			
Inhalation -			-		-		-				
Dermal			-		-		-				
Critical physical pa	rameters: s	olubility,	flammabili	•	•						
					sumer						
Route of		ute		Acute		Chronic			Chronic		
exposure:	effec	t local		effect systemic		effect local			effect systemic		
Oral Inhalation	-		-								
Dermal			-		-						
PNEC											
Environmental pro	tection tarc	get			PNEC						
Fresh water				r	no information available						
Freshwater sedime	nts			r	no information available						
Marine water			r	no information available							
Marine sediments				r	no information available						
Food chain				r	no information available						
Microorganisms in sewage treatment				r	no information available						
3				r	no information available						
Air								no information available			



Page 6 of 16

Trading name:		BIEBRICH SCARLET-ACID FUCHSIN REAGENT					
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3		

	Substance/mixture related measure prevent exposure during identific		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prevent exposure:		In accordance with Section 7.				
	Organisational measures to prev exposure:	ent	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent ex	xposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.				
8.2.2.	Personal protection equipment						
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case levels of concentration in air; protective gas mask that centire face in case of higher levels of concentration in air.					
8.2.2.2.	Skin protection						
	Hand protection:		The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min				
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitab footwear, such as rubber boots (EN 20345) or shoes that cover entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chem (Viton, 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	3					
	Substance/mixture related measures to prevent exposure:	See Se	ction 6				
	Structural measures to prevent exposure:	Use mo	odern equipment.				
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.				
	Technical measures to prevent exposure:						

#### **SECTION 9. Physical and chemical properties**

9.1 Information on basic physical and chemical properties



Page 7 of 16

Trading name:		BIEBRICH SCARLET-ACID F	UCHSIN REAGEN	T	
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3

		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
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.					



Page 8 of 16

Trading name:	BIE	BRICH SCARLET-ACID F	UCHSIN REAGEN	Т	
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3

****			cai criccis						
Oral: Dermal: Inhalation:  Aspiration I  Irritation an  Skin corrosion/irritation: Serious eye damage/irritation		Method	Species	Do	ose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	me Results			
Oral:		-	-		information lable	-	-		
Dermal:		-	-		information lable	-	-		
Inhalation:		-	-		information lable	-	-		
	Specific targ	get organ toxid	city – single exp	osure (S	TOT SE):				
		Spe	ecific effects		Target	organ	Note		
Oral:	_	No information	on available		No information	available	-		
Derma	l:	No information	on available		No information	-			
Inhalat	Inhalation: No information available				No information available -				
	Irritation an		, i	10 1111011	mation available.				
		Expos	ure time	Spec	ies Evaluat	ion Method	Note		
	ion/irritation:	-	-		-	-	-		
		-	-		-	-	-		
	Sensitizatio	า							
Skin se	ensitization:	No i	nformation avai	ilable.					
Respira	atory sensitiza	tion: No i	nformation avai	ilable.					
	Symptoms	elated to the	ohysical chemic	ral and t	oxicological char	actoristics			
		Harmful if		car and t	oncological chal	acteristics			
Oral ov	•			ah skin	May cause skin i	rritation			
Oral ex		i iai i i i i i i i i	absorbed tillou	gii skiil.	iviay cause skill li	mation.			
Derma	ion exposure:	Harmful if	nhaled May ca	IICA roco	iratory tract irrita	ation			



Chronic dermal

No information available

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

Page 9 of 16

Trading name:	BIEB	RICH SCARLET-ACID FU	JCHSIN REAGENT		
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3

Repeated dose toxicity (subacute, subchronic, chronic)

		Dose	Exposure time	Species	Method	Evaluation	า	Note
Subacute oral	No i availa	nformation ble	No information available	No information available	No information available	No information available	on	-
Subacute dermal	No i availa	nformation ble	No information available	No information available	No information available	No information available	on	-
Subacute inhalation	No i availa	nformation ble	No information available	No information available	No information available	No information available	on	-
Subchronic oral	No information available		No information available	No information available	No information available	No information available	on	-
Subchronic dermal	No information available		No information available	No information available	No information available	No information available	on	-
Subchronic inhalation	No information available		No information available	No information available	No information available	No information available	on	-
Chronic oral	No information available		No information available	No information available	No information available	No information available	on	-
Chronic dermal	No i availa	nformation ble	No information available	No information available	No information available	No information available	on	-
Chronic inhalation	No i availa	nformation ble	No information available	No information available	No information available	No information available	on	-
Chacific	taraat	organ tavisit	ropostod o	TOT2) enuse ave	DE).			
Specific	target	organ toxicit	Specific effec	xposure (STOT	Target o	rgan		Note
Subacute oral		No informa	ition available		No information		_	
Subacute dermal			ition available		No information		-	
Subacute inhalat			ition available		No information	n available	-	
Subchronic oral		No informa	ition available		No information	n available	_	
Subchronic derm	nal	No informa	ition available		No information	n available	-	
Subchronic inhal	ation	No informa	ition available		No information	n available	-	
Chronic oral		No informa	ition available		No information available -			

No information available



Page 10 of 16

Trading name:		BIEBRICH SCARLET-ACID F	UCHSIN REAGEN	T	
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3

Chronic	inhalation	No information available	е	No information available -				
	CMR effects	(carcinogenicity; mutagenic	ity; re	eproductive toxicity)				
	Carcinogenic	ity:	Bas	sed on available data, the classification criteria are not met.				
	Mutagenicity	in vitro:	Bas	sed on available data, the classification criteria are not met.				
	Genotoxicity:		Bas	sed on available data, the classification criteria are not met.				
	Mutagenicity	in vivo:	Bas	sed on available data, the classification criteria are not met.				
	Germ cell mu	ıtagenicity:	Based on available data, the classification criteria are not met.					
	Reproductive	e toxicity:	Based on available data, the classification criteria are not					
	Summary o	of evaluation of the C	CMR	Based on available data, the classification criteria are not met.				
11.2	Practical expe	eriences:						
	Classification	observations:		No information available				
	Other observ	rations:		No information available				
11.3	General note	S:						
	_							

SECTION 12. Ecologi	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	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 <sub>50</sub>	96 hours	No information available	No information available	No information available	-



Page 11 of 16

Trading	name:			BIE	BRIG	CH SCARLET-A	CID F	FUCHSIN	REAGENT	Page 11 c	
Product		BS	SAF-OT-X*	*	D	ate of compila	ion:	27 Jur	ne 2019	Version:	3
Crustacea:		1	EC <sub>50</sub>	48 hours		No information available		mation	No informatic available	on -	
Algae/aq	gae/aquatic plants IC <sub>50</sub> 72 hours		: :	No information available	No	mation	No informatic available	on -			
Other org	ganisms		_	-	-	_	-		-	-	
12.2 I	Persisten	ice an	d degradal	oility							
	Abiotic d										
į.			gradation h	alf-lives		Method		Evaluation	n	Note	
Marine w	ater I	No in	formation a	available		information ilable	No ir availa	nformatior able	n -		
Fresh water No information a		available		information ilable	No informatio available		٦ -				
Air No information availab		available		information ilable	No information available		٦ -	-			
Soil	Soil No information available		available		No information available No information available		١ -				
	Biodegra	datio	n								
	radation	laatio	Time (	davs)	0 0 0 0 0 0 0 0 0 0 0	Method		Evaluation	n	Note	<u> </u>
No inforn available				formation		No information available Round		nformation	n No	informatio ailable	
12.3 I	Bioaccun	nulati	ve potentia	1							
			•	oefficient (	log K	low)					
Value			ntration	рН	°C	Method		Evalua	ation	Not	te
		-	<b>-</b>	-		-		-			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1										
	Bioconce	entrati	ion factor (	BCF)							
Val	ue		Speci	es		Method		Evaluation	on	Note	e
No inforn available	nation	No ava	in ailable	formation		No information available		No information available			



Tradin	g name	e:		BIEBRICH S	CAR	LET-ACI	D FUC	CHSIN	REA	GENT			
	ct code		AF-OT-X**			mpilatio		27 Jur			Version:		3
		1											
	Chron	nic ecoto:	kicity	·		·				:			
	Valu		Dose	Exposure time	Spe	ecies	Meth	nod	Εν	aluation	1	Note	
Chronic	toxicity	y on fish	LC <sub>50</sub>	information	No inforr availa	mation	No inform availab			rmation ilable	-		
	toxicity ea ( <i>Dap</i>	•	EC <sub>50</sub>	information	No inforr availa	mation	No inform availab		_	rmation ilable	-		
12.4	Mobil	ity in soi	l										
	Know	n or pred	licted distributi	on in environme	ntal c	ompartm	nents:						
	No in	formatio	n available										
	Surfac	e tensio	n:										
	Va	lue	°C	Concentrati	ion		Metho	od			Note		
	No inforn availa	nation ble	No information available	No informati available	on	No info		n		-			
	Adsor	ption / d	lesorption										
Transpo	ort	-	coefficient 's constant	log Kow	Ev	/aporatio	n rate		Meth	od	N	ote	
Soil-wa	tor :	No available	information	No information available		o informa railable	tion	No ir availa		nation	-		
Water-	air a	No available	information	No information available	av	o informa railable		availa	able	nation	-		
Soil-air		No available	information	No information available		o informa railable	tion	No ir availa	_	nation	-		
12.5	Result	ts of PBT	and vPvB asses	ssment									
	Not a	pplicable	).										
	ار د حالم	adverse	- fft -										
12.6													



Page 13 of 16

Trading name:	BIEB	RICH SCARLET-ACID FU	JCHSIN REAGENT		
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3

	N 13. Disposal considerati				
13.1	Waste treatment method	S			
13.1.1.	Product/Packaging dispo	ısal:			
	3 3 .	ubmit for disposal to the legal person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste desig	unations according to Law.			
13.1.2.	Waste codes/waste designations according to Law:  15 01 10*: Packaging that contains residual hazardous substances or is contaminated with hazardous substances				
13.1.3.	Waste treatment – releva	nt information:			
	No information available				
13.1.4.	Sewage disposal – releva	nt information:			
	Waste must not be 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	visions:			
	Disposal must be made a	according to official regulations.			
CECTION	N 14 TRANSPORT WIFORN	44TON			
SECTIO	N 14 TRANSPORT INFORM				
	Transporting/shipment by				
UN num		Not subject to transport regulations			
······································	per shipping name:	-			
•	rt hazard class(es):				
Packing		-			
	mentally hazardous:	-			
Special <sub>I</sub>	precautions for user:				
	Transporting/shipment by				
UN num		Not subject to transport regulations			
	per shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			



Page 14 of 16

Trading name:	BIEBRICH SCARLET-ACID FUCHSIN REAGENT				
Product code:	BSAF-OT-X**	Date of compilation:	27 June 2019	Version:	3

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

SECTI	ECTION 15. Regulatory information		
15.1	Safety, health and envi	ronmental regulations/legislation specific for the substance or mixture	
	EU regulations		
	Authorization and/or re	estrictions of use	
	Authorizations:	-	
	Restrictions:	-	



Page 15 of 16

Trading name:		BIEBRICH SCARLET-ACID F	UCHSIN REAGEN	lT	
Product code:	BSAF-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 199 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 assessmen	nt
	None	

SECTIO	ON 16. Other information		
16.1	Indication of changes:	-	
16.2	Abbroviations and agreement	PBT vPvB	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative.
16.2	Abbreviations and acronyms:	LD <sub>50</sub> LC <sub>50</sub> 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 us 1272/2008 (CLP)	ed to derive the	e classification for mixture according to Regulation (EC)
Classifi	cation C	lassification pro	ocedure
_	-		
16.5.	Relevant H statements (number	and full text)	
	H:		
16.6.	Training advice: -		



Page 16 of 16

Trading name:		BIEBRICH SCARLET-ACID F	UCHSIN REAGEN	T	
Product code:	BSAF-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
-



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	F.C.F. REAGENT	
	Chemical name:	_			
	Catalogue number:	FGR-OT-X*	*		
1.2 Relevant identified uses of the substance or mixture and uses advised against				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:	The product is intended for use only as an <i>in vitro</i> gainst: medical device, registered at the Agency for Medicinal Pr Medical Devices and there is no reason to use it for other		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@b	oiognost.hr	
	National contact:		-		
1.4	Emergency telephone number				
	National Protection and Rescue Dire		ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ON 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. Con	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
_	-	_	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	ECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media: water spray, dry powder, CO <sub>2</sub> 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 c (see Section 8).	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					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation	n:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:	Protect against electrostatic charges.				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.			
	Packaging materials:	Manufactu	urer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the contained tightly closed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no draithat 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

Trading name:		FAST GREEN F.C.F. REAGENT								
Product code:	FGR-OT	FGR-OT-X** D		ate of compilation:		27 June 2019		Version:	3	
,			·							
8.1 Control p	arameters									
Substanc	CAS No		Occupational exposure limit values/short term values			Biologi	Biological limit values			
				рр	om mg/m³					
-	-		-			-				
1 1										
Substance name:	Substance name: -									
EC No:	-	CAS No	) <b>:</b>							
DNEL										
				Indus	strial					
Route of exposure:	Acı effect		Acu effect sy		Chronic Chronic nic effect local effect systemic					
Oral	-		-		-			-		
Inhalation	-		-		-		-	-		
Dermal	-		-		-			-		
Critical physical pa	Critical physical parameters: solubility, flammability, corrosivity:									
Consumer										
Route of	A	cute	Acu	te Chronic			Chronic			
exposure:	effe	t local	effect sy	stemic	effect local		$\epsilon$	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			

8.2	Exposure controls			
8.2.1.	Appropriate engineering 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 identific		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to prevent exposure:		In accordance with Section 7.			
	Organisational measures to prev exposure:	ent	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent e	xposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of low levels of concentration in air; protective gas mask that covers the entire 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	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	3				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6			
	Structural measures to prevent exposure:	Use mo	odern equipment.			
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.			
	Technical measures to prevent exposure:	See Se	Section 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								
Route exposu	of	Method	Species	Do	se LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	E	Exposure tim	ne	Results
Oral:		No information available	-		nformation lable		-		-
Derma	l•	No information available	-		information lable		-		-
Inhalat	ion.	No information available	-		information lable		-		-
	Specific targ	et organ toxicity -	- single expos	sure (S	TOT SE):				
		Specific	effects		Targe	et orgar	1	No	ote
Oral:		No information av	ailable		No information	n availa	able	-	
Derma	l:	No information av	ailable	No information available -			_		
Inhalat	ion:	No information av	ailable	No information available			_		
	Aspiration h		No	inforr	nation available	e			
		Exposure t	ime	Speci	es Evalu	ation	Method	N	lote
Skin corrosi	ion/irritation:	-	-	•	-		-	_	
Serious damag	s eye ge/irritation	-	-		-		-	_	
	Sensitization	)							
Skin se	ensitization:	1	mation availa	ble.					
Respira	atory sensitizat		mation availa						
	Symptoms r	elated to the phys	ical, chemica	I and t	oxicological ch	aracteri	stics		
Oral ex	rposure:	Harmful if swall	owed.						
	l exposure:	Harmful if abso	rbed through	n skin.	May cause skin	irritatio	on.		
Derma									
	ion exposure:	Harmful it inhal	ed. May caus	se resp	iratory tract irri	tation.			



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 available		

Specific target organ toxicity – repeated exposure (STOT RE):					
	Specific effects	Target organ	Note		
Subacute oral	No information available	No information available	-		
Subacute dermal	No information available	No information available	-		
Subacute inhalation	No information available	No information available	-		
Subchronic oral	No information available	No information available	-		
Subchronic dermal	No information available	No information available	-		
Subchronic inhalation	No information available	No information available	-		
Chronic oral	No information available	No information available	-		
Chronic dermal	No information available	No information available	-		



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 mutagenicity:  Reproductive toxicity:		Based on available data, the classification criteria are not met.				
			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 experiences:						
	Classification observations:		No information available				
	Other observations:			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 <sub>50</sub>	96 hours	No information available	No information available	No information available	-				
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-				
Algae/aquatic plants	IC <sub>50</sub>	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 <sub>50</sub>	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 <sub>50</sub>	48 hours		No information available	No inforr availa	mation able	No information available	on -		
Algae/aquatic plants		Algae/aquatic pla		IC <sub>50</sub>	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	iformationable	n -			
Fresh wa	ater	No ir	nformation a	available		information ilable	No information available		n -	-		
Air No information av		available		information ilable	No information available		n -	-				
Soil No information ava		available		information ilable	No information available		n -					
	Biodegra	adatio	on.									
% De	gradation	-	Time (	days)		Method		Evaluatio	n	Note		
No info	rmation			nformation		information ilable	No in	iformation able		o information ailable		
100	D:				1				:			
12.3			ive potentia		los V	(a) W						
Value			er partition on the name of th	pH	°C	ow) Method	9 9 9 9 9 9 9	Evalu	ation	Note		
-	-	Jonce	THAHOH	<b>μ</b> Π	-	- INTELLIOU	-	- Evalu	ation	-		
	Riocono	ontra	tion factor (	IRCE)		:						
\/-		CITUID	Speci			Method		Fyaluati	on	Note		
Value Sponsor No available available		o in	nformation N		Method  No information available		Evaluation  No information available		ivote			



Tradin	ng nam	e:		F.A	ST G	REEN F	.C.F. RI	AGEN	<b>IT</b>			
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 <sub>50</sub>	No information available	No infor avail	mation able	No inform availab			ormation ilable	-	
	c toxicit cea ( <i>Dap</i>	-	EC <sub>50</sub>	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	on Method				Note		
	No inforr availa	mation lble	No information available	No informat available	ion	on No information - available		-				
	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		No information available		No informat		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. 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 the legal person authorized by the Ministry of Environmental and Nature Protection.					
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:	-				
Environr	mentally 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	ON 15. Regulatory info	rmation					
15.1	Safety, health and env	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations						
	Authorization and/or r	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)	9/13/EC about limitation of emissions of volatile organic compounds (VOC-		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act		
15.2	Chemical safety assessmen	t		
	None			

SECTIO	ON 16. Other information		
16.1	Indication of changes:	-	
160		PBT vPvB	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative.
16.2	Abbreviations and acronyms:	LD <sub>50</sub> LC <sub>50</sub> 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 us 1272/2008 (CLP)	ed to derive the	e classification for mixture according to Regulation (EC)
Classifi	cation	lassification pro	ocedure
_	-		
16.5.	Relevant H statements (number	and full text)	
	H:		
16.6.	Training advice: -		



Page 16 of 16

Trading name:		FAST GREEN F.C.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
-



Page 1 of 16

Trade name:	P.T.A. – P.M.A. REAGENT				
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3

1.1.	Product identifier	Product identifier				
	Trade name:	P.T.A. – P.M.A.	REAGEN	IT		
	Chemical name:	-				
	Catalogue number:	PPR-OT-X**				
1.2.	Relevant identified uses	of the substan	ce or mi	xture and uses advised against		
	Uses:		For use	e with Masson Trichrome and Masson-Goldner Trichrome g kits.		
	Uses advised against:		Only th	ne identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.			
1.3.	Details of the supplier of	Details of the supplier of the safety data sheet				
	Supplier: BioG		nost Ltd.			
	Address:	Medj	jugorska 59, Zagreb			
	Telephone number: +385		5 1 2409997			
	Telefax:	+385	5 1 2404039			
	e-mail of competent per	son: <u>msds</u>	s@biognost.hr			
	National contact:	National contact: -				
	Emergency telephone number					
1.4.	Emergency telephone nu	arriber				
1.4.	National Protection and		rate:	112		
1.4.			orate:	112 +385 1 2348 342		

SECTIO	SECTION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Re	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard statement*:						
	Not identified as hazardous s	-					
2.1.2.	Additional information						
	-						
* For fu	ıll text of Hazard- and EU Hazaı	d-statements: see S	SECTION 16				
2.2.	Label elements						
	Product identification:	P.T.A. – P.M.A	A. REAGENT				
	Identification number:	-					
	Authorisation number:	-					



Page 2 of 16

Trade name:	P.T.A. – P.M.A. REAGENT					
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3	

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

SECTION 3. Com	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
-	-	-	Contains no hazardous substances	-				

SECTI	TION 4. First aid measures				
4.1.	Description of first aid meas	ures			
	General notes:	-			
	Following inhalation:	Remove person to fresh air. If breathing stops, immediately apply artificial respiration. If breathing difficulties occur, use emergency breathing apparatus. If the symptoms persist, immediately consult a physician.			
	Following skin contact:	Remove all contaminated clothes using sterile gauze. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			
	Following ingestion:	Rinse the oral cavity, drink 1-2 glasses of water. Do not induce vomiting. 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:	Cough, breathing difficulties, respiratory failure, dizziness, euphoria, narcosis, inebriation.			
	Following skin contact:	Drying and cracking of skin, redness, burning sensation, burns with ulceration.			
	Following eye contact:	Redness, burning sensation, tearing, eye pain, blurred vision, severe eye damage. Hazard of permanent loss of vision.			



Page 3 of 16

Trade name:		P.T.A. – P.M.A. REAGENT				
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3	

	Following ingestion:	Burns of the mouth and throat, pain in the digestive tract, nausea, vomiting, perforation of the esophagus and stomach.	
4.3.	Indication of any immediate medical attention and special treatment needed		
	No information available		

SECTI	SECTION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media:		Water, CO <sub>2</sub> , foam, dry powder			
	Unsuitable extinguishing med	ia:	No information available			
5.2.	Special hazards arising from the substance or mixture					
	Hazardous combustion products:	No information available.				
5.3.	Advice for firefighters	Advice for firefighters				
	,	Firefighters must always use fireproof suit and self-sustaining breathing apparatus with open circle that contains pressurized air in case of fire in closed space.				
5.4.	Additional information					
	Prevent spills and water used for putting out fire from contaminating waterways by enclosing and covering drains.					

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective ec	quipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use protective equipment in accordance with Section 8. Do not get in eyes or on skin. Do not inhale vapor/aerosols. Remove the persons not directly involved in rescuing procedure from the scene of event.				
	Accident prevention methods:	Keep away from heat, flames and sparks.  Secure proper ventilation.  Prevent electrostatic charge buildup.  Use only grounded devices and equipment.  Do not release in drains - explosion hazard.				
	Emergency procedures:	In case of accident secure the location and evacuate the personnel not involved in recovery.				
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:					



Page 4 of 16

Trade name:	P.T.A. – P.M.A. REAGENT						
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3		

	Prevent the product from entering the environment; in case it enters environment, it is necessary to prevent the product from reachign waterways, drainage systems and soil. In the case of considerate environment contamination, contact National protection and rescue directorate.				
6.3.	Methods and material	for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:  Sand bags.				
6.3.2.	Cleaning up:	Where possible, soak up the product using inert matter, such as sand, silica gel, saw dust). 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:	Recovery of contaminated area should only be conducted by qualified person that uses stipulated protective equipment. Prevent the waste water from entering waterways.			
6.4.	Reference to other sections				
	See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment. See Section 13 for information about containment.				

SECTIO	ON 7. Handling and storage						
7.1.	Precautions for safe handling						
7.1.1.	Protective measures						
	Measures to prevent fire:	Keep away from heat, flames and sparks. Secure proper ventilation.					
	Measures to prevent aerosol and dust generation:	Adequate ventilation of the rooms where the product is kept and handled. Containers must be firmly closed.					
	Measures to protect the environment:	Keep the containers firmly closed in vertical position when the product is not used. Prevent the product from entering waterways, sewerage and drainage systems by using barrage and semi-barrage made of sand, as well as covering the drainage by using plastic foil.					
	Other measures:	-					
7.1.2.	Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. Thoroug	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 incompatib	ilities					



Page 5 of 16

Trade name:	P.T.A. – P.M.A. REAGENT					
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3	

	Technical measures and storage conditions:	In dry, cold and well-ventilated space. Containers must be firmly closed. Maintain adequate ventilation of the rooms where the product is kept and handled.
	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:	Keep away from heat, flames, sparks and sunlight.
	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:	Secure stations for rinsing eyes and showering in the vicinity of work area.
	Industrial sector specific solutions:	-

SECTION 8. E	xposure	contro	ols/persona	l protec	tion			
8.1. Cont	trol para	meters						
Substance			CAS No			Occupational exposure limit values/short term values		ological limit values
					ppm	mg/m <sup>3</sup>		3
-			-		-	-		-
Substance								
name:	-							
EC No: - CAS No:				-				
DNEL								
					Industrial			
Route of exp	osure:		te effect local		cute effect systemic	Chronic effect local		Chronic effect systemic
Oral		-		-		-		-
Inhalation		Ī		-		-		-
Dermal		-		-		-		-
Critical physic	al paran	neters: s	olubility, fla	mmabili	ty, corrosivity:			
					Consumer			
Route of exp	osure:		te effect local		cute effect systemic	Chronic		Chronic effect systemic
Oral		_	iocai	_	3y3terriic	- 1000	31	- systemic



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

Page 6 of 16

								raţ	ge 6 of 16
Trade na	me:			P	.T.A. – P.	M.A. REAGENT			
Product	code:	PPR-OT-X**	*	Date c compi		04 July 2019	٧	ersion:	3
Inhalation		_							
Dermal	l	-				-			
PNEC		-				-		-	
	ontol pro	taction target			PNEC				
Fresh wate		tection target				rmation available			
Freshwate		nto							
		nts				rmation available			
Marine wa						rmation available			
Marine se						rmation available			_
Food chai		cowago troot-	oont .			rmation available			
<u> </u>		sewage treatn	nent			rmation available			
Soil (agric	uitural)					rmation available			
Air				INO INTOI	rmation available				
0.0	F								
8.2.		ure controls							
8.2.1.	Appropriate engineering controls								
	meası	ance/mixture r ures to preven g identified uso	t exposure		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Struct expos	ural measures ure:	to prevent	In acco	ordance wi	th Section 7.			
	_	nisational meas nt exposure:	sures to		zation of v work prod	work in order to red cess.	luce o	ther work	er's influence
	Techr expos	nical measures sure:	to prevent			orkspace ventilation vels in air below per			ер
8.2.2.	Perso	nal protection	equipment						
8.2.2.1.	Eye aı	nd face protec	tion:	levels o	of concent	at stick to face (EN in ration in air; protect e of higher levels of	tive ga	as mask tl	nat covers the
8.2.2.2.	Skin p	rotection							
				Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374.  Glove material: nitrile rubber				ctive	
	mand	Hand protection:			Glove thickness: ≥0.50 mm  Break through time: >480 min				
	Other	skin protectio	n:		ng sleeves	tic clothing made of natural fibers (such as cotton) seeves (EN 13034), and shoes that cover the entire foo			



Page 7 of 16

Trade name:	P.T.A. – P.M.A. REAGENT						
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3		

8.2.2.3.	Respiratory protection:	Suitable mask or half mask equipped with a combined "A-P" filter and 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

Information on basic physical	and chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	yellowish	No information available
Odour:	No information available	No information available
Odour threshold;	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapour pressure:	No information available	No information available
Vapour density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	Soluble in water	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



Page 8 of 16

Trade name:	P.T.A. – P.M.A. REAGENT					
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3	

	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	ON 10.: Stability and reactivity	
10.1.	Reactivity:	See subsections 10.3 through 10.5.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.
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. Information	n on toxicological effe	ects					
Acute toxic	city:						
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposu	ıre time	Results	
Oral:	No information available	-	No information available	No information available		-	
Dermal:	No information available	_	No information available	No information available		_	
Inhalation:	No information available	_	No information available	No information available		_	
Specific tar	get organ toxicity – s	ingle exposure (	STOT SE):				
	Specific	effects	Target org	gan		Note	
Oral:	No information avai	lable	No information a	No information available		-	
Dermal:	No information avai	lable	No information a	No information available		-	
Inhalation:	No information available		No information a	No information available		-	



Page 9 of 16

Trade name:		P.T.A. – P.	M.A. REAGENT		
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3

		CC	ompliation:			
Irritatio	n and corrosion					
	Ехр	osure time	Species	Evaluation	Method	Note
Skin corrosion/irritation:			-	-	-	No information available
Serious eye damage/irritation			-	-	-	No information available
Sensitiz	ration					
Dermal exposure		ion available				
Inhalation exposure:		ion available				
Sympto	oms related to the	e physical, chemi	cal and toxicolog	gical characterist	ics	
Oral exposure:	esophagus a	act irritation (nau and stomach per		urns in mouth ar	nd digestive trac	t, hazard of
Dermal exposure	: Causes burn	ıs.				
Inhalation exposure:		mucous membra Ialaise, unconscic	•			ugh, shortness
Eye exposure:	Tearing, irrit	ation, pain in the	e eye, clouded vi	sion, severe eye i	njury. Risk of lo	ss of vision.
Repeate	ed dose toxicity (	subacute, subchr	onic, chronic)			
·	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	_
		L	<u>k</u>	∆		



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

Page 10 of 16

Trade name:		P.T.A. – P.	M.A. REAGENT	<u> </u>	
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3

			compilation:		0.50.9			
Subchronic No inform dermal available			No information available	No inform availab		No information available	No informatio available	n -
Subchronic inhalation	No information available		No information available	No n inform availat		No information available	No informatio available	n -
Chronic oral	No info	ormation le	No information available	No n inform availat		No information available	No informatio available	n -
Chronic dermal	No information available		No information available	No n inform availak		No information available	No informatio available	n -
Chronic inhalation	No information available		No information available	No n inform availat		No information available	No informatio available	n -
C :ti -			:	d	(CTOT I	)F).		
Specific	. target o	1	ity – repeate		(31011)			NI a.t
			Specific effe			Target orga		Note
Subacute oral		No infor	mation avail	able	No inf	ormation availa	ble	-
Subacute dermal		No infor	mation avail	able	No inf	ormation availa	ble	-
Subacute inhalat	ion	No infor	mation avail	able	No inf	ormation availa	ble	_

	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	-

Carcinogenicity:	No information available
Mutagenicity in-vitro:	No information available
Genotoxicity:	No information available
Mutagenicity <i>in-vivo</i> :	No information available
Germ cell mutagenicity:	No information available
Reproductive toxicity:	No information available



Page 11 of 16

Trade name:		P.T.A. – P.	M.A. REAGENT		
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3

11.2.	Practical experiences:	
	Classification observations:	No information available
	Other observations:	No information available
11.3.	General notes:	
	-	

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

## 12.2. Persistence and degradability Abiotic degradation

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



Page 12 of 16

Trade name:	P.T.A. – P.M.A. REAGENT				
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3

	Biodeg	grada	ation								
% Deg	radation		Time (day	rs)	N	/lethod		Evaluation		No	ote
l :			No information available		No inform	nation a	vailable	No informati available		No available	information
12.3.	Bioacc	umul	lative potentia	al							
	Octano	ol-wa	ater partition (	coefficie	nt (log Kow	')					
Val	ue	Cor	ncentration	рН	°C	Me	thod	Evaluatio	n	١	lote
No informa availab	ation	No avail	information lable	-	! <b>-</b> !	No inf available	ormation e	n No inform available	ation	No available	information
	Biocon /alue	cent	ration factor (			Method		Evaluation		NI NI	ote
	rmation		Speci No informati available		No informat available			No information available		No information available	
	Chroni	c ecc	otoxicity								
					Exposure		:	NA - +		Frankratian	NI-1-
	Value	)	Do	se	time	3	pecies	Method		Evaluation	Note
Chronic toxicity on fish		ish LC <sub>50</sub>	1	o formation railable	No infor avail	mation able	No information available		ormation ailable	<b>–</b>	
	toxicity ea (Daph		EC <sub>50</sub>		o formation railable	No infor avail	mation able	No information available		o Formation ailable	-
12.4.	Mobili	ty in	soil								
	Known	or p	redicted dist	ibution	n environn	nental co	ompartm	nents:			
	No info	orma	ntion available								
	Surface	e ten	sion:								
	Val	ue	°C		Concentra	ation		Method		Not	:e



Page 13 of 16

Trade	name:			P. <sup>-</sup>	T.A.	. – P.M.A. REA	GENT		
Produ	ct code	e:	PPR-OT-X**	PPR-OT-X**  Date of compilation: 04 July 2019			2019	Versior	ո: 3
	No information available		No n information available			No information available	_		
	Adso	rptior	n / desorption						
Transp	ort		/D coefficient enry's constant	log Kow	E۱	vaporation rate	Meth	iod	Note
Soil-wa	at∆r :	No availa	information able	No information available	No av	o information vailable	No info	rmation	-
Water-	air :	No availa	information able	No information available		o information vailable	No info	rmation	-
Soil-air	r	No availa	information able	No information available	No information No info		No info	mation -	
12.5.	Dogu	lta of	PBT and vPvB asses	-cm ont					
12.5.			ation available	ssment					
12.6.	Othe	r adve	erse effects						
	No ir	nform	ation available						
SECTIO	ON 13	Disno	osal consideration	c					
13.1.			eatment methods	<u> </u>					
13.1.1.	Pro	duct/	Packaging disposa	l:					
		omit f	or disposal to the l	egal person autho	rize	d by the Ministr	y of Enviror	nmental a	nd Nature
13.1.2.	\ <b>\</b> /_	octo co	odos (wasta dasigns	ations according to	- l c				
13.1.2.	15	01 10	odes/waste designa *: packaging that c				s or is conta	aminated	with hazardous
	sub	ostanc	ces						
13.1.3.	Wa	iste tr	eatment – relevant	information:					
			mation available						
1314	Sev	wane i	disnosal – relevant	information:					



Page 14 of 16

Trade name:		P.T.A. – P	.M.A. REAGENT		
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3

	Waste must not be dispo	osed of into the sewage system.			
13.1.5.	Other disposal recomme	ndations:			
13.1.3.	·	oduct's remains into the sewage system. Submit the remains to the collectors			
	authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.				
13.1.6.	Relevant Community pro	visions:			
		gement Act, Ordinance on Waste Management, Regulation on categories, of waste with waste catalog and list of hazardous waste			
SECTION	N 14. Transport information	on			
	Transporting/shipment by	road (ADR)			
UN num	ber:	Not subject to transport regulations			
UN prop	er shipping name:	-			
Transpoi	rt hazard class(es):	-			
Packing	group:	-			
Environn	mental hazards:	-			
Special p	precautions for user:	-			
	Transporting/shipment by	rail (RID)			
UN num	ber:	Not subject to transport regulations			
UN prop	er shipping name:	-			
Transpoi	rt hazard class(es):	-			
Packing	group:	-			
Environn	nental hazards:	-			
Special p	precautions for user:	-			
	Transporting/shipment by	inland waterways (ADN)			
UN num	ber:	Not subject to transport regulations			
UN prop	er shipping name:	-			
Transport hazard class(es):		-			
Packing group:		-			
Environn	nental hazards:	-			
Special p	precautions for user:	-			
	Transporting/shipment by	sea (IMDG)			
UN num	ber:	Not subject to transport regulations			
UN prop	er shipping name:	-			



Page 15 of 16

Trade name:		P.T.A. – P	.M.A. REAGENT		
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3

Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	Not subject to transport regulations
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:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

SECTI	ON 15. Regulatory informa	ation					
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations	EU regulations					
	Authorisations and/or res	strictions of use					
	Authorisations:	-					
	Restrictions:	-					
		EC Regulation No. 1906/2007 and Directive (EC) No. 1272/2008 of the European Parliament and 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 regarding registration, evaluation, authorization and restriction of chemicals (REACH);					
	Other EU regulations:	EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;					
		EC Regulation No. 689/2008 of the European Parliament and Council of 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 from 19 November 2008 about waste and repeal of certain Directives					
	Information according 19 guideline)	999/13/EC about limitation of emissions of volatile organic compounds (VOC-					



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

Page 16 of 16

Trade name:	P.T.A. – P.M.A. REAGENT				
Product code:	PPR-OT-X**	Date of compilation:	04 July 2019	Version:	3

	National regulation:	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, Transport of Hazardous Substances Act		
15.2.	Chemical safety assessment			
	None			

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

Α	N	IN	J	F	X	•

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 



Page 1 of 16

Trading nan	ne:		ACETIC ACID, 1% S	OLUTION	<u> </u>	
Product cod	łe: OK1-	OT-X**	Date of compilation:	27 June 2019	Version:	3

SECTIO	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	ACETIC ACI	D, 1% SOI	LUTION		
	Chemical name:	-				
	Catalogue number:	OK1-OT-X*	*			
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against		
	Uses:		For use	with special staining kits.		
	Uses advised against:		Only the	e 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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnos	t Ltd.		
	Address:		Medjug	orska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2	2404039		
	e-mail of competent p	person:	msds@b	<u>piognost.hr</u>		
	National contact:		-			
1.4	Emergency telephone	Emergency telephone number				
	National Protection a	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:					

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Reg	ulation (EC) No 1	272/2008 (CLP)		
	Hazard class and category code: Hazard statements*:				
	Not identified as hazardous sul	bstance.	-		
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:	ACETIC ACID, 19	% SOLUTION		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



Page 2 of 16

Trading name:		ACETIC ACID, 1% S	OLUTION		
Product code:	OK1-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. 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)	
64-19-7/ 200-580-7/ 607-002-00-6	-	< 1%	acetic acid, glacial 99%	Flam. Liq. 3; H226 Skin Corr. 1A; H314	

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



Page 3 of 16

Trading name:		ACETIC ACID, 1% S	OLUTION		
Product code:	OK1-OT-X**	Date of compilation:	27 June 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 media	cal attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media	Extinguishing media			
	Suitable extinguishing media: wa	ater spray, dry powder, CO <sub>2</sub> or alcohol resistant foam			
	Unsuitable extinguishing media: W	ater with full jet			
5.2	Special hazards arising from the subst	tance or mixture			
	Hazardous combustion products: no	o information available			
5.3	Advice for firefighters				
	Use a self-contained open-circuit com	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 a (see Section 8).	case of inadequate ventilation use adequate airways protective equipment			
6.2	Environmental precautions:				
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.				
6.3 Methods and material for containment and cleaning up		tainment and cleaning up			
6.3.1.	6.3.1. Bunding, covering of drains; capping procedures: Sand protective barrier or barriers made of similar materials.				



Page 4 of 16

Trading name:		OLUTION			
Product code:	OK1-OT-X**	Date of compilation:	27 June 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 until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).
6.4	Reference to other sections	
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	

SECTIO	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	phtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away tightly clos	ay from food and drink. Keep the containers osed.		
	Advices for storage equipment:		e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper i.		
	Further information on storage conditions:	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).		



Soil (agricultural)

Air

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

Page 5 of 16

Trading name:		ACETIC ACID, 1% S	OLUTION	_	
Product code:	OK1-OT-X**	Date of compilation:	27 June 2019	Version:	3
	:		•		-

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

Industrial	Industrial sector specific solutions: -								
SECTION 8. Expos	ure contr	ols/perso	nal protec	tion					
8.1 Control pa	arameters								
Substance					cupational exposure limit values/short term values		Biological limit values		
					ppm	mg/	m³		-
Acetic acid		64	-19-7	1	L0/20	25/	'50	-	
				_					
Substance name:	Substance name: -								
EC No:	-	CAS No	: -						
DNEL									
				Inc	dustrial				
Route of	Acı	ute	Acut	te		Chro	nic		Chronic
exposure:	effect	local	effect sys	stemic	:	effect l	ocal		effect systemic
Oral	-		-		-				-
Inhalation	-		-		-				-
Dermal	-		-		-				-
Critical physical pa	rameters:	solubility,	flammabilit	ty, cor	rosivity:	-			
			1	Co	nsumer			ı	
Route of		cute	Acute			Chronic			Chronic
exposure:	effe	ct local	effect sy	stemic	c 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					

no information available

no information available



Page 6 of 16

Trading name:	ACETIC ACID, 1% SOLUTION				
Product code:	OK1-OT-X**	Date of compilation:	27 June 2019	Version:	3

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 preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	kposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
	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	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Section 6			
	Structural measures to prevent exposure:	Use 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:		ACETIC ACID, 1% S	<u> </u>		
Product code:	OK1-OT-X**	Date of compilation:	27 June 2019	Version:	3

Technical measures to prevent	See Section 6
exposure:	See Section 0

Information on basic physical and	chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour:	mild acetic acid 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:	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:		ACETIC ACID, 1% S	OLUTION	<u> </u>	
Product code:	OK1-OT-X**	Date of compilation:	27 June 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

	<b>exicological informati</b> etion on toxicological e						
Acute to							
Route of exposure:	Method	Species	Do	se LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure t	ime	Results
Oral:	No information available	-		nformation lable	_		_
Dermal:	No information available	_		nformation lable	_		_
Inhalation:	No information available	-		nformation lable	_		_
:							
Specific	target organ toxicity -	- single exp	osure (S	TOT SE):			
	Specific	effects	Target or		organ		Note
Oral:	No information a	mation available		No information available		-	
Dermal:	No information a	vailable	No information available		vailable	-	
Inhalation:	No information a	vailable	No information available -				
Aspirati	on hazard:		No inforn	nation available.			
Irritatio	n and corrosion						
	Exposure t	ime	Speci	es Evaluatio	on Method		Note
Skin corrosion/irritati	on:	-	-	-	-	-	
Serious eye damage/irritatio	n -	-	-	-	-	-	
Sensitiz	ation						
Skin sensitization	n: No infor	mation ava	ilable.				
Respiratory sensitization: No information a			ilable.				



Page 9 of 16

Trading nam	e:	ACETIC ACID, 1% S	OLUTION		
Product code	e: OK1-OT-X**	Date of compilation:	27 June 2019	Version:	3

Sympto	ms rela	ated to the ph	nysical, chemic	al and toxicolog	gical characterist	ics		
Oral exposure:		Harmful if sw	vallowed.					
Dermal exposure	<b>:</b>	Harmful if ab	sorbed throug	jh skin. May caι	use skin irritation	•		
Inhalation exposure: Harmful if inhaled. May cause respiratory tract irritation.								
Eye exposure:		May cause ey	ye irritation.					
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)				
		Dose	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	-	
Subacute dermal	No availa	information able	No information available	No information available	No information available	No information available	-	
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No information available	-	
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available	-	
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-	
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-	
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-	
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-	
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-	
1								
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):			
			Specific effec	its	Target o		Note	
Subacute oral			tion available		No information		_	
Subacute dermal	<u> </u>	No informa	tion available		No information	n available -	_	



Page 10 of 16

Trading name:					
Product code:	OK1-OT-X**	Date of compilation:	27 June 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 classification met.	ation criteria are not			
	Reproductive t	oxicity.	Based on available data, the classification criteria are not met.				
	Germ cell muta		Based on available data, the classification criteria are not met.  Based on available data, the classification criteria are not met.  Based on available data, the classification criteria are not met.				
	Mutagenicity i						
	Genotoxicity:						
	Mutagenicity in 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	-			
	c dermal	No information available	No information available	-			
Chroni		No information available	No information available	-			
Subchr	onic inhalation	No information available	No information available	-			
Subchr	onic dermal	No information available	No information available	-			
Subchr	onic oral	No information available	No information available	-			
Subacı	ubacute inhalation No information available		No information available	-			

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



Page 11 of 16

Trading name:	ACETIC ACID, 1% SOLUTION					
Product code:	OK1-OT-X**	Date of compilation:	27 June 2019	Version:	3	

Algae/aquatic plants	IC <sub>50</sub>	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 <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

### Persistence and degradability

Abiotic degradation

		1		
	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

Biodegradation

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

#### 12.3 Bioaccumulative potential

Octanol-water partition coefficient (log Kow)

Octanol-water partition coefficient (log kow)						
Value	Concentration	рН	°C	Method	Evaluation	Note
-	-	-	-	_	-	-



											Page 12	01 10
Trading	g name:				AC	ETIC	ACID,	1% SO	LUTION	<b>N</b>	_	
Product code: OK1-OT-X**			Date	of co	mpilati	on:	27 June 2019		Versio	Version: 3		
	Diocone		on factor (DCI									
V	alue	entrati	on factor (BCF Species	')	N/	1ethoc	l	E,	valuatio	n	No	nto.
	rmation	No	-	nation	No info				ormatio		INC	nte
available			ailable	nation	available		/I I	availab		-		
	Chronic	ecoto	xicity	_								
	Value		Dose		osure ime	Spe	ecies	Metl	nod	Evaluatio	n	Note
				No N		No		No		No		
Chronic	toxicity	on fish	LC <sub>50</sub>		mation	1				informatio available	nformation -	
						No	ibie	No		No		
	toxicity		EC <sub>50</sub>				mation	-		informatio	n -	
crustace	ea (Daphi	nia)		availa	able	availa	ble	availab	ole	available		
12.4	Mobility					_						
		······	dicted distribu	tion in e	environme	ental c	ompart	ments:				
			n available									
	Surface											
	Valu	ie	°C	C	oncentrat	tion	* * * * * * * * * * * * * * * * * * *	Metho	od		Note	9
	No informa	tion	No information		informat	ion		ormatio	n	_		
	availabl		available	ava	ilable		availal	ole				
	Adsorp	tion / d	lesorption								1	
Transpo	ort		coefficient 's constant	lo	og Kow	Εν	Evaporation i		Method			Note
Soil-wat	ter av	o ailable	information	No ir availa	nformatio able		o inform ailable	nation	No inf availal	ormation ole	-	
Water-a	air No	o ailable	information	No ir	nformatio		o inform	nation	No inf	ormation	-	



Page 13 of 16

Trading name:		ACE	ACETIC ACID, 1% SOLUTION							
Produc	Product code: OK1-OT-X**			compilation:	27 June 2019	Version:	3			
Soil-air No information available			No information available	No information available	No information available	nation -				
12.5	Doculto of	PBT and vPvB asse	ssmont							
12.5	Not applic		SSITIETIL							
	тос аррік	Labie.								
12.6	Other adv	erse effects								
	No furthe	r relevant informati	on available.							
SECTIO	N 13. Disp	osal consideration	ns							
13.1	Waste ti	reatment methods								
1211										
13.1.1.		/Packaging disposa		wine all booths a NAireia	tu. of Faring and out of	Land Nation				
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.									
	:									
13.1.2.	Waste c	odes/waste design	ations according to	o Law:						
	15 01 10 substan		contains residual h	azardous substand	es or is contaminate	ed with hazardo	ous			
13.1.3.	Waste ti	reatment – relevant	· information:							
13.1.3.		mation available	. imormation.							
13.1.4.	Sewage	disposal – relevant	information:							
	Waste must not be disposed of into the sewage system.									
13.1.5.	Other di	sposal recommend	lations:							
	authoriz		in charge. Do not	dispose of the pac	n. Submit the remain kaging into the sewa arge.					
13.1.6.	Relevant Community provisions:									
	Disposa	I must be made acc	cording to official r	regulations.						
SECTIO		ISPORT INFORMA								
1181	<u>.</u>	ing/shipment by ro			***					
UN nun	nber: per shippin		Not subject t	o transport regula	tions					



UN proper shipping name: Transport hazard class(es):

Environmentally hazardous:

Special precautions for user:

Further information:

Packing group:

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

Page 14 of 16

Trading name:			ACETIC ACID, 1% SOLUTION						
Product code:	OK1-OT-X**		Date of compilation:	27 June 2019	Version:	3			
Transport hazard o	-loca(oc):								
	liass(es).	-							
Packing group:	azardouc:	_							
Environmentally ha		-							
Special precaution		(DID)							
	ing/shipment by rail								
UN number:			ot subject to transport regul	ations					
UN proper shippin		<u> </u>							
Transport hazard o	ciass(es):	-							
Packing group:		-							
Environmentally ha		-							
Special precaution									
i	iterway transport (AD								
UN number:		No	ot subject to transport regu	ations					
UN proper shippin		-							
Transport hazard o	class(es):	-							
Packing group:									
Environmentally ha		-							
Special precaution	s for user:	-							
Transport	ing/shipment by sea	(IMDC	5)						
UN number:		No	ot subject to transport regul	ations					
UN proper shippin	ig name:								
Transport hazard class(es):		-							
Packing group:		-							
Environmentally hazardous:		-							
Special precautions for user:									
Transport in bulk of MARPOL 73/78	according to Annex and the IBC code:	II _							
Transport	ing/shipment by air (	ICAO-	TI/IATA-DGR)						
IIN number		Nic	nt subject to transport regul	ations					

-

\_

-



Page 15 of 16

Trading name:	ACETIC ACID, 1% SOLUTION				
Product code:	OK1-OT-X**	Date of compilation:	27 June 2019	Version:	3

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:	-				
	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 <sub>50</sub>	Lethal dose, 50%			
		LC <sub>50</sub>	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:		OLUTION			
Product	code:	OK1-OT-X**	Date of compilation:	27 June 2019	Version:	3

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 (num	ber and full text)			
	H: H226	Flammable liquid and vapour.			
	H314	Causes severe skin burns and eye damage.			
16.6.	Training advice:	-			
		** "X" in the product code marks different volumes (different packagings of the product)			
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX: Exposure scenario resulting to chemical safety assessment
-