

## **ELASTICA-VAN GIESON KIT**

## **VERSION 3**

The kit contains:

Ferri reagent, Weigert B
Fuchsin Acid Van Gieson reagent
Hematoxylin, Weigert A
Resorcine Fuchsin reagent



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Trading name:	FERRI REAGENT, WEIGERT B					
Product code:	FR-OT-X**	Revision date:	21 Dec 2022	Version:	5	

SECTI	ON 1 IDENTIFICATION	OF THE SUBS	STANCE/MIX	KTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	FERRI REAC	GENT, WEIGE	RT B	
	Chemical name:	-			
	Catalogue number:	FR-OT-X**			
1.2.	Relevant identified use	es of the subs	stance or mix	ture and uses advised against	
	Uses:		For use in	special staining kits.	
	Uses advised against:		Only the ic	dentified uses are advised.	
	Reason why uses advi	The product is intended for use only as an <i>in vitro</i> dia device, registered at the Agency for Medicinal Product Devices and there is no reason to use it for other pur			
1.3.	Details of the supplier	of the safety	data sheet		
	Supplier:	Ві	BioGnost Ltd.		
	Address:	N	Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039		
	Telephone number:	+			
	Fax no.:	+			
	e-mail of competent p	erson: <u>m</u>	msds@biognost.hr		
	National contact:	-			
1.4.	Emergency telephone	number			
	National Protection ar	nd Rescue Dir	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	TION 2 HAZARDS INFORMATION						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Re	gulation (EC) No 1	272/2008 (CLP)				
	Hazard class and cate	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 Hazar	d-statements: see S	Section 16				
2.2.	Classification according to EC	Directive Nr. 1272	2/2008 CLP)				
	Product identification:	FERRI REAGE	ENT, WEIGERT B				
	Identification number: -						
	Authorization no.: -						
	Hazard pictograms:	-					



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	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	<b>Endocrine Disrupting Properties</b>	:
	No known endocrine disrupting pr	roperties
	<b>Results of PBT and vPvB assessn</b> PBT or a vPvB.	<b>nent</b> : According to the results of its assessment, this substance is not a

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. 1B; H314 STOT SE 3; H335				

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



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	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. Longterm 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.			
	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				
	-				

SECTI	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 ed	quipment 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. Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Wear protective equipment (see Section 8).					



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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 cor	ntainment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay harriers					
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	Reference to other sections					
	-						

SECTIO	ON 7 HANDLING AN STORAGE					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust generation	n: Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				
	Other measures:	-				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating					
7.2.	Conditions for safe storage, including any incom	patibilities				
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.				
	Packaging materials:	Manufacturer's original packaging.				
	Redilirements 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.				



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	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

8.1. Con	trol paramet	ers						
Substance		CAS I			upational exposure limit llues/short term values		Biological limit values	
				ppm	mg/m³		-	
Hydrogen ch	loride	7647-0	)1-0	5/10	8/15		-	
Substance name:	-							
EC No: -		CAS No:	-					
DNEL			·					
				Industrial				
Route of		Acute		Acute	Chronic	<b>C</b>	Chronic	
<b>exposure:</b> eff		effect local	al effect syste		effect local		effect systemic	
Oral -			-		-		-	
Inhalation -			-		-		-	
Dermal	-		-		-		-	
Critical physic	cal paramete	rs: solubility, fla	ımmabili	ty, corrosivity:	-			
				Consumer				
Route of		Acute		Acute	Chronic		Chronic	
exposure:		effect local	effe	ect systemic	effect loc	cal	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
PNEC								
Environment	al protection	target		PNEC	PNEC			
Fresh water					No information available			
Freshwater se	ediments				No information available			
Marine water				No info	ormation available	!		



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Marine se	diments			No information available		
Food chai	n			No information available		
Microorga	nisms in sewage treatment			No information available		
Soil (agric	ultural)			No information available		
Air				No information available		
0.0						
8.2.	Exposure controls					
8.2.1.	Engineering measures		1			
	Substance/mixture related measures to prevent expoduring identified uses:			product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.		
	Structural measures to pre exposure:	event	No info	rmation available		
	Organisational measures to prevent exposure:			ation of work in order to reduce other worker's influence work process.		
	Technical measures to pre exposure:	event		oroper workspace ventilation in order to keep tration levels in air below permitted levels.		
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:		Safety g visor.	lasses that stick to face (preventing splashing) (EN 166) or		
8.2.2.2.	Skin protection					
	Hand protection:	standard EN : Glove Glove		es must be according to the EU Directive 2016/425/EEC and 4.  naterial: nitrile rubber nickness: ≥0.50 mm nrough time: >480 min		
	Other skin protection:			tatic clothing made of natural fibers (such as cotton) with long 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter fo	or organio	ace mask (EN 136) or half mask (EN 140) equipped with a vapors, type "A" (boiling point >65°C) acording to EN en concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation	available		
8.2.3.	Environmental exposure of	ontrols				
	Substance/mixture related measures to prevent expo		See Sec	tion 6		
	Structural measures to pro exposure:	event	Use modern equipment.			
	Organisational measures prevent exposure:	to	-	Adapt the work process to the required working conditions of the workplace.		



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

9.1.	Information on basic physical and che	mical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	pale yellow	No information available
	Odour/odour threshold:	neutral/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	рН:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
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.				
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.				



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Hazardous decomposition products: No information available. 10.6.

	COLOGICAL INFORMA				
	n on hazard classes as	defined in Regu	lation (EC) No 12	72/2008	
Acute toxic	city:				
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure 1	ime 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>	_	-
Cassific to	ract organ tovicity	oalo ovnosuro (C	TOT CEV		
Specific tar	get organ toxicity – sir	effects		t organ	Note
Oral avposure:	No information a		No informati	t organ	Note -
Oral exposure:  Dermal exposure:	1		No informati		
•				No information available -	
Inhalation exposure	: No information a	valiable	NO IIIIOIIIIau	OII avallable	
Respiratory	/ irritation:	No inforr	nation available		
; · ·					
Irritation a	nd corrosion				
:	Exposure time	Species	Evaluation	Method	Note
Skin irritation:	-	rabbit	-		
Eye irritation:	-	rabbit	-		
Sensitizatio	on				
Dermal exposure:	No information availa	ıble			
Inhalation exposure:	No information availa	ıble			
Symptoms	related to the physical	, chemical and t	oxicological chara	acteristics	
Oral exposure:	Swallowing may ca sensation; higher lo In case of vomiting concentration may	evels of concent g, aspiration caus	ration may cause ses coughing, diff	nausea, abdor	minal pain and vomiting



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Dermal exposure	<b>:</b>	Slight irritation. After short exposure, resorption effects are not likely. Long-term emay cause drying, cracking and tingling sensation of skin.							
Inhalation expos	ure:		Inhalation of large amounts of vapors in inadequately ventilated perimet coughing, sneezing, headache and nausea.						
Eye exposure:		Direct eye co sensation.	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.						
Repeate	ed dos	e toxicity (sub	acute, subchro	onic. chronic					
13 <b>F</b>		Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No avail	information able	No information available	No information	No information available	No information available	-		
Subacute dermal	No avail	information able	No information available	No information available	No information available	No information available	-		
Subacute inhalation	No avail	information able	No information available	No information available	No information available	No information available	-		
Subchronic oral	No avail	information able	No information available	No information	No information available	No information available	-		
Subchronic dermal	No avail	information able	No information available	No information	No information available	No information available	-		
Subchronic inhalation	No avail	information able	No information available	No information	No information available	No information available	-		
Chronic oral	No avail	information able	No information available	No information	No information available	No information available	-		
Chronic dermal	No avail	information able	No information available	No information	No information available	No information available	-		
Chronic inhalation	No avail	information able	No information available	No information	No information available	No information available	-		
c :c	<b>4</b>	Laurent 1 1 1			TOT DEV				
Specific	targe		y – repeated e pecific effects	xposure (ST	OTRE): Target or	gan	Note		
Subacute oral			ation available		No information av		NOLE		



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Subacute dermal	No information	n available	No information available	-		
Subacute inhalation	No information	n available	No information available	-		
Subchronic oral	No information	n available	No information available	-		
Subchronic dermal	No information	n available	No information available	-		
Subchronic inhalation	No information	n available	No information available	-		
Chronic oral	No information	n available	No information available	-		
Chronic dermal	No information	n available	No information available	-		
Chronic inhalation	No information	n available	No information available	-		
	·		į.	1		
CMR effects (	carcinogenicity, m	utagenicity, reprodu	uctive toxicity)			
Carcinogenic	ity:	Current studies on	test animals did not indicate ca	rcinogenic effects.		
Mutagenicity	in-vitro:	Current <i>in vitro</i> t	ests did not indicate mutageni	c effects.		
Genotoxicity:		No information available				
Mutagenicity	in-vivo:	o-vivo: Current in vivo tests did not indicate mutagenic effects.				
Germ cell mu	tagenicity:	No information av	ailable			
Reproductive	toxicity:	No toxicity on roorgans.	eproductive organs was deter	mined in reproductive		
	evaluation of the C	CMR properties:	-			
	srupting properties	<u> </u>				
The substance components endocrine according to Commission 2017/2100 o	e/mixture does no considered to	t contain have roperties 57(f) or tion (EU) egulation				
11.2.2. Other information	ation:					

SECTION 12 ECOLOGICAL INFORMATION:							
12.1. Toxicity							
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	



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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>	8 days	-	No information available	-	-
Microorganisms	LC <sub>50</sub>	72 hours	-	-	-	-
Chronic 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	-	-	-	-	-	-

#### 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	-

D: 1			
Biodeo	コヒコム	lation	١.
DIOUE	ai au	ıatıoı	

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

#### 12.3. Bioaccumulative potential



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	Parti	tion co	efficier	nt: n-octan	ol/wate	er (log K	low):							
Valu	e	Cond	centrat	ion	Н	°C	М	ethod		Evalua	ation		Note	
-		No availab	inform ole	ation -		-	No infavailat	ormatior ble	1	No inform available	nation	-		
	Bioc	oncentr	ration f	actor (BCF	)									
V	alue			Species	-		Metho	d		Evaluation	on		Note	
No info availabl			No availab		nation No infor available			ormation N		No information available		No int	formation ble	
	Chrc	nic eco	toxicit	v										
	Val		-	Dose		Exposure time		ecies	N	Method	Εν	/aluation	Note	5
Chronic	toxic	ity on fi	ish	LC <sub>50</sub>	No information available		No infor avail	mation able	1	ormation ailable	No ir	nformatio able	n -	
Chronic crustace		-		EC <sub>50</sub>	No infor avail			mation able		o ormation ailable	No information available		n -	
12.4.	Moh	oility in s	soil											
12,7,		-		d distribu	ion in e	nvironr	mental	compart	men	ıts.				
		nforma					Tieritai	compare						
		ace tens												
	١	/alue		°C	С	oncentr	ation		М	ethod			Note	
	No No information inf			ormation ailable		No information available				ation	-			
	L		<u></u>					<u> </u>						
	Adso	orption	/ deso	rption										
Transpo	ort		D coef nry's co	ficient onstant	lo	og Kow	E	vaporati	on ra	ate	Metho	d	Note	



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Soil-wa	No information available		No information available	No information available	No information available	-
Water-	Vater-air  No information No information available  No information available  No information available					
Soil-air	No availab	information le	No information available	No information available	No information available	-
12.5.	Results of P	BT and vPvB asse	ssment			
	according to	REACH Article 5	•	n Delegated regula	to have endocrine d tion (EU) 2017/2100	lisrupting properties or Commission
12.6.	Endocrine d	isrupting propert	ies			
	according to	REACH Article 5	•	n Delegated regula	to have endocrine d tion (EU) 2017/2100	lisrupting properties or Commission
12.7.	7. Other adverse effects					
14.7.	Other adver	se errects				
12.7.		tion available				
12.7.						
	No informa		TIONS			
	No informa	cion available	TIONS			
SECTIO	No informa	cion available	TIONS			
SECTIO	No information No inf	cion available				
<b>SECTIO</b> 13.1.	No information No inf	SAL CONSIDERA atment methods ackaging disposa	l:	rized by the Minist	ry of Environmental	and Nature
<b>SECTIO</b> 13.1.	No information No inf	SAL CONSIDERA atment methods ackaging disposa r disposal to the l	l:	·	ry of Environmental	and Nature
<b>SECTIC</b> 13.1.	No information No inf	SAL CONSIDERA atment methods ackaging disposa r disposal to the l	l: egal person autho	·	ry of Environmental	and Nature
<b>SECTIC</b> 13.1.	No information No inf	SAL CONSIDERA atment methods ackaging disposa r disposal to the l des/waste designa ation available	l: egal person autho ations according to	·	ry of Environmental	and Nature
<b>SECTIC</b> 13.1. 13.1.1.	No information No inf	SAL CONSIDERA atment methods ackaging disposa r disposal to the l a.	l: egal person autho ations according to	·	ry of Environmental	and Nature
13.1.1. 13.1.2.	No information No inf	SAL CONSIDERA atment methods ackaging disposa r disposal to the l l. des/waste designa ration available atment – relevant	l: egal person autho ations according to information:	·	ry of Environmental	and Nature
<b>SECTIC</b> 13.1. 13.1.1.	No information No inf	SAL CONSIDERA atment methods ackaging disposa r disposal to the l a. des/waste designa ation available atment – relevant ation available	l: egal person autho ations according to information:	) Law:	ry of Environmental	and Nature
13.1.1. 13.1.2.	No information No inf	SAL CONSIDERA atment methods ackaging disposa r disposal to the l a. des/waste designa ation available atment – relevant ation available	l: egal person autho ations according to information:	) Law:	ry of Environmental	and Nature



## **SAFETY DATA SHEET**

## amended by Regulation (EU) No. 2020/878

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	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.					
13.1.6.	Relevant Community provisions:					
	-					
SECTION	14 TRANSPORT INFORMATIO	ON CONTRACTOR OF THE CONTRACTO				
٦	Transporting/shipment by road (	ADR)				
UN numb	oer:	Not subject to transport regulations.				
UN prope	er shipping name:	-				
Transport	t hazard class(es):	-				
Packing g	ıroup:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
٦	Transporting/shipment by rail (R	ID)				
UN numb	oer:	Not subject to transport regulations.				
UN prope	er shipping name:	-				
Transport	t hazard class(es):	-				
Packing g	ıroup:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
I	nland waterway transport (ADN)					
UN numb	oer:	Not subject to transport regulations.				
UN prope	er shipping name:	-				
Transport	hazard class(es):	-				
Packing g	ıroup:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
7	Transporting/shipment by sea (II	MDG)				
UN numb	oer:	Not subject to transport regulations.				
UN prope	er shipping name:	-				
Transport	t hazard class(es):	-				
Packing g	ıroup:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				



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

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorization and/or rest	rictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain				
	dangerous substances, mixtures and articles (Annex XVII);  Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-					
	guideline)	Chemicals Act, Regulation on classification, packaging and labeling of				
		dangerous substances, Ordinance on occupational exposure limit values and				
	National legislation:	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				



#### **SAFETY DATA SHEET**

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None

16.1.	Indi	cation of changes:	-				
16.2.		previations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  IMDG: International Maritime Code for Dangerous Goods  IATA: International Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent  PBT: Persistent, Bioaccumulative and Toxic  vPvB: very Persistent and very Bioaccumulative				
16.3.		literature references and rce of data:	-				
16.4.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)				
Classif	ication	١	Classification procedure				
-			-				
16.5.	Rele	evant H statements (numb	per and full text)				
	H:	H314	Causes severe skin burns and eye damage.				
		H315	Causes skin irritation.				
		H319	Causes serious eye irritation.				
			·				
		H335	May cause respiratory irritation.				
16.6.	Trai	H335 ning advice:	•				

#### **ANNEX:**

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 



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Trading name:	F	UCHSIN ACID VAN GIES	HSIN ACID VAN GIESON REAGENT		
Product code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

SECTI	ON 1: Identification of	the substance	e/mixture	e and of the company/undertaking		
1.1	Product identifier					
	Trading name:	FUCHSIN A	CID VAN	GIESON REAGENT		
	Chemical name:	-				
	Catalogue number:	FAG-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 advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection a	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	CTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and ca	tegory code:	Hazard statements*:		
	Not identified as hazardous	Not identified as hazardous substance			
2.1.2.	Additional information				
	-				
*For fu	ıll text of Hazard- and EU Haza	ard-statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	FUCHSIN ACID	VAN GIESON REAGENT		
	Identification number: -				
	Authorization number: -				
	Hazard pictograms:	Hazard pictograms: -			



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Trading name:	F	UCHSIN ACID VAN GIESON REAGENT			
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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	Endocrine Disrupting Properties:			
	No known endocrine disrupting properties			
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a PBT or a vPvB.			

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)	
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	

	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 effects, both acute and delayed		



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

SECTI	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	water spray, dry powder, CO <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 o	compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.			

SECTIO	ECTION 6. Accidental release measures			
6.1	Personal precautions, protective 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 member without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).			
6.2	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for contain	inment and cleaning up		



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Trading name:		FUCHSIN ACID VAN GIE			
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6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).			
6.4	Reference to other sections				
	See Section 7 for information on safe handling.				
	See Section 8 for information on personal protection equipment.				
	See Section 13 for disposal in	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. The	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incom	patibilities			
	Technical measures and storage conditions:	well ventil	phtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	ırer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away 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.			



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	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Expos	ure contr	ols/perso	nal pro	tection				
8.1 Control pa	arameters							
				-		exposure limit		
Substance		CA	S No	val	lues/short	term values	Biological limit values	
				1	ppm	mg/m³		
-		-		-	-	-		
Substance name:	-	_						
EC No:	_	CAS No	•	_				
DNEL								
				Ind	lustrial			
Route of	Acı	ıte	A	Acute		Chronic	Chronic	
exposure:	effect	local	effect	t systemic	:	effect local	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
Critical physical par	rameters: s	solubility,	flamma	bility, cor	rosivity:	-		
				Cor	nsumer			
Route of	Ad	cute	ļ A	Acute	Chronic		Chronic	
exposure:	effec	t local	effect	t systemic		effect local	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
PNEC								
Environmental prot	tection tar	get			PNEC			
Fresh water				no inform	nation available			
Freshwater sediments				no information available				
Marine water					no inform	nation available		
Marine sediments					no information available			



Food chain

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no information available

Microorga	anisms in sewage treatment		no information available		
Soil (agric	cultural)		no information available		
Air			no information available		
	i i				
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:	nt	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exp	posure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection	<u> </u>			
	Hand protection:		otective gloves have to satisfy the specification of tion (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 impern	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 neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GV			
8.2.2.4.	Thermal hazards:	No information available			
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		



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Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

Information on basic phy	rsical and chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	red	No information available
Odour/odour threshold:	no information available/information available	No information available
Melting point / freezing p	point: No information available	No information available
Boiling point or initial bo point and boiling range:	iling No information available	No information available
Flammability:	No information available	No information available
Lower and upper explosi	on limit: No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperatur	re: No information available	No information available
Decomposition temperat	cure: No information available	No information available
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient noctanol/water (log value)	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative de	ensity: No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available
Other information		

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



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

11.1 Informa	tion on hazard classes	as defined in	n Regulation	(EC) No 1272/	2008		
Acute to	oxicity:						
Route of exposure:	Method	Species		<sub>50</sub> /LC <sub>50</sub> or E <sub>mix</sub>	Exposure time		Results
Oral:	No information available	-	No information available		-		-
Dermal:	No information available	-	No information available		- -		-
Inhalation:	No information available	nation No information available			-		-
Specific	target organ toxicity		sure (STOT S				
	Specific	effects	Target organ				Note
Oral:	No information a	vailable	No information available			-	
Dermal:	No information a	vailable	No i	No information available -			
Inhalation:	No information a	vailable	No information available -			-	
Aspiration	on hazard:	No	o informatio	n available.			
Irritation	n and corrosion						
	Exposure <sup>-</sup>	time	Species	Evaluation	Method		Note
Skin corrosion/irritation	on:	-		-	-	-	
Serious eye - damage/irritation		-		_	-	-	
Sensitiza	ation						
Skin sensitization	n: No infor	mation availa	able.				
Respiratory sensi		mation availa					



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Oral exposure:	Harmful i	f swallowed.					
Dermal exposure	e: Harmful i	f absorbed through skin. May cause skin irritation.					
Inhalation expos	ure: Harmful i	f inhaled. May cau	ıse respiratory t	ract irritation.			
Eye exposure:	May caus	e eye irritation.					
Repeate	ed dose toxicity (	subacute, subchro	onic, chronic)				
	Dose	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No informati available	on No information available	No information available	No information available	No information available	-	
Subacute dermal	No informati available	on No information available	No information available	No information available	No information available	-	
Subacute inhalation	No informati available	on No information available	No information available	No information available	No information available	-	
Subchronic oral	No informati available	on No information available	No information available	No information available	No information available	-	
Subchronic dermal	No informati available	on No information available	No information available	No information available	No information available	_	
Subchronic inhalation	No informati available	on No information available	No information available	No information available	No information available	-	
Chronic oral	No informati available	on No information available	No information available	No information available	No information available	-	
Chronic dermal	No informati available	on No information available	No information available	No information available	No information available	-	
Chronic inhalation	No informati available	on No information available	No information available	No information available	No information available	-	



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Subacute oral	No information available	2		No information available	-			
Subacute dermal	No information available	2		No information available	-			
Subacute inhalation	No information available	9		No information available	-			
Subchronic oral	No information available	9		No information available	-			
Subchronic dermal	No information available	9		No information available	-			
Subchronic inhalatio	n No information available	Э		No information available	-			
Chronic oral	No information available	9		No information available	-			
Chronic dermal	No information available	<b>e</b>		No information available	-			
Chronic inhalation	No information available	No information available			-			
CMR effects	(carcinogenicity; mutagenici	ty; re	eproductive t	toxicity)				
Carcinogen	Carcinogenicity:			able data, the classification o	riteria are not met.			
Mutagenici	Mutagenicity in vitro:			Based on available data, the classification criteria are not met.				
Genotoxicit	Genotoxicity:			able data, the classification o	riteria are not met.			
Mutagenici	Mutagenicity in vivo:			able data, the classification o	riteria are not met.			
Germ cell m	nutagenicity:	Ba	sed on availa	able data, the classification o	riteria are not met.			
Reproductiv	e toxicity:	Ba	sed on availa	able data, the classification o	criteria are not met.			
Summary	of evaluation of the C	MR	Based on	available data, the classific	ation criteria are not			
properties:			met.					
11.2 Information	on other hazards:							
11.2.1. Endocrine of	lisrupting properties:							
component	nce/mixture does not con s considered to have endoc	rine						
	properties according to REA f) or Commission Delega							
	(EU) 2017/2100 or Commiss							
Regulation higher.	(EU) 2018/605 at levels of 0.19	% or						
11.2.2. Other inform	mation:							

SECTION 12. Ecological information									
12.1 Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			



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Product code:	F	AG-OT-X**		Date of compila	tion: 21 D	ec 2022	Version:
		1	-	1	1	1	
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>	4 days	No information available	No information available	No information available	-
Other organism	S	-	-	-	-	-	-
Chronic (long-te	erm)	Dose	Exposure time	e Species	Method	Evaluation	n 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 p	lants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organism	S	-	-	-	-	-	-
12.2 Persiste	ence a	nd degradal	oility				
Abiotic	degra	dation					
	De	gradation h	alf-lives	Method	Evaluation	on	Note
Manina		· ( 4 ·	!! - ! - ! -	No information	No information	on	

	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	-

_					
R	$i \cap A$	ea	rad	<b>1</b>	inn
D	IOU	cu	ıau	аи	UI

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



Trading name:

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Produ	ct code:	FAG-	OT-X**		Date	of co	mpilati	on:	21 De	c 2022	,	Version:	6
12.3	Bioaccum	ulative p	ootential										
	Octanol-w	ater pa	rtition coef	ficient (	(log Kow)	)					2		
Valu	ie Co	ncentra	tion	ρΗ	°C	Me	ethod		Evalua	ation		Note	
_	-		-		-	-		-			-		
	Bioconcer	tration	factor (BCF	······································									
V	/alue		Species		N	√ethoc	l		Evaluation	on		Note	
	ormation	No		nation	No info		n		nformati	on	-		
availab	ie	availal	Die		availab	ie		availa	abie				
		1			i			<u> </u>			i		
	Chronic ed	otoxicit	ty	·		:				î		:	
	Value		Dose		osure ime			Method E		Evalu	ation	Note	!
Chronic	toxicity on	fish	LC <sub>50</sub>	No infor	mation	No inforr	nation	No infor	mation	No inform	ation	_	
	<b> </b>		- 30	avail		availa		availa		availab			
Chronic	toxicity on		EC <sub>50</sub>	No infor	mation	No	mation	No infor	mation	No inform	ation	_	
crustac	ea ( <i>Daphnia</i>	<b>'</b> )	LC50		able	availa			able	availab		_	
12.4	Mobility in												
	· •	·······	ed distribu	tion in e	environm	ental c	compart	ments	•				
	No inform		vailable										
	Surface te Value	nsion:	°C		oncentra	tion		Met	hod			Note	
	No	No										Note	
	informatic available	n inf	formation railable		informa ailable	tion	No inf availat		ion	-			



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Trading name:		UCHSIN ACID VAN GIE	SON REAGENT		
Product code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

	Adsorption / desorption						
Transpor	t A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note		
Soil-wate	No information available	No information available	No information available	No information available	-		
Water-air	r No information available	No information available	No information available	No information available	-		
Soil-air	No information available	No information available	No information available	No information available	-		
12.5	Results of PBT and vPvB asses						
	The substance/mixture does r according to REACH Article 5 <sup>-</sup> Regulation (EU) 2018/605 at I	7(f) or Commission	n Delegated regulat				
12.6.	Endocrine disrupting properti	es					
·	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.						
12.7	Other adverse effects						
	No further relevant information	on available.					
SECTION	I 13. Disposal consideration	s					
13.1	Waste treatment methods						
13.1.1.	Product/Packaging disposa	<u>:</u>					
	Submit for disposal to the le Protection.	egal person autho	rized by the Ministr	y of Environmental	and Nature		
13.1.2.	Waste codes/waste designa	tions according to	Law:				
	15 01 10*: Packaging that contains residual hazardous substances or is contaminated with hazardous substances						
13.1.3.	Waste treatment – relevant	information:					
	No information available						
13.1.4.	Sewage disposal – relevant	information:					



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Trading name:		FUCHSIN ACID VAN GI	SON REAGENT		
Product code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

Waste must not be disposed	of into the sewage system.				
,					
Other disposal recommendate	tions:				
Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.					
Relevant Community provisions:					
Disposal must be made according to official regulations.					
I 14 TRANSPORT INFORMAT	ION				
Transporting/shipment by roac	d (ADR)				
oer:	Not subject to transport regulations				
er shipping name:	-				
t hazard class(es):	-				
group:	-				
entally hazardous:	-				
recautions for user:	-				
Transporting/shipment by rail (	(RID)				
oer:	Not subject to transport regulations				
er shipping name:	-				
t hazard class(es):	_				
group:	-				
entally hazardous:	-				
recautions for user:	-				
Inland waterway transport (AD	N)				
per:	Not subject to transport regulations				
er shipping name:	-				
t hazard class(es):	-				
group:	-				
nentally hazardous:	-				
recautions for user:	-				
Transporting/shipment by sea	(IMDG)				
per:	Not subject to transport regulations				
er shipping name:	-				
t hazard class(es):	-				
group:	-				
	Other disposal recommendary Do not dispose of the product authorized by the ministry in the packaging to the collector Relevant Community provision Disposal must be made accordant Transporting/shipment by road per:  er shipping name:  thazard class(es): group: hentally hazardous: recautions for user:  Transporting/shipment by rail oper: er shipping name: thazard class(es): group: hentally hazardous: recautions for user:  Inland waterway transport (AD per: er shipping name: thazard class(es): group: hentally hazardous: recautions for user:  Inland waterway transport (AD per: er shipping name: thazard class(es): group: hentally hazardous: recautions for user:				



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

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Trading name:	g name: FUCHSIN ACID VAN GIESON REAGENT				
Product code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

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: -	

1 Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
EU regulations	
Authorization and/or res	trictions of use
Authorizations:	-
Restrictions:	-
Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);



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Trading name:	F	UCHSIN ACID VAN GIES	ACID VAN GIESON REAGENT		
Product code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

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

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

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trade name:	HEMATOXYLIN, WEIGERT A				
Product code:	HEMA-OT-X**	Date of compilation:	19 Dec 2023	Version:	6

<b>SECTI</b> 1.1.	ON 1. Identification of the Product identifier	substance/m	ixture and	of the company/undertaking	
1.1.		11514450\0/111	VALCEDE		
		HEMATOXYLIN, WEIGERT A			
	Chemical name:	-			
	Catalogue number:	HEMA-OT-X**			
1.2.	Relevant identified uses	of the substanc	e or mixtur	e and uses advised against	
	Uses:		For use i	n special staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advised	on why uses advised against: medical and Me		ne product is intended for use only as an <i>in vitro</i> diagnostic edical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other urposes.	
1.3.	Details of the supplier of the safety data sheet				
	Supplier:	BioGr	ost Ltd.		
	Address:	Medjı	ugorska 59,	Zagreb	
	Telephone number: +385		1 2409997		
	Telefax:	+385	1 2404039	1 2404039	
	e-mail of competent per	erson: <u>msds@biog</u>		oiognost.hr	
	National contact:	-			
1.4.	Emergency telephone nu	ımber			
	National Protection and	Rescue Directo	rate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and ca	tegory code:	Hazard statements*:		
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For ful	*For full text of Hazard- and EU Hazard-statements: see Section 16				
2.2.	Label elements				
	Product identification:	HEMATOXYLIN,	WEIGERT A		
	Identification number:	-			
	Authorisation number:	-			



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Trade name:	HEMATOXYLIN, WEIGERT A				
Product code:	HEMA-OT-X**	Date of compilation:	19 Dec 2023	Version:	6

	No known endocrine disrupting properties <b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is no PBT or a vPvB.		
	Endocrine Disrupting Properties:		
2.3.	Other hazards		
	Supplemetal hazard information (EU)	-	
	Precautionary statement:	<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> </ul>	
	Hazard statements:	H225 Highly flammable liquid and vapor.	
	Signal word:	Danger	
	Hazard pictograms:	GHS02	

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)	
107-21-1/ 203-473-3/ 603-027-00-1	01-2119456816- 28-xxxx	1- 10 %	ethylene glycol	Acute Tox. 4, H302	
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610- 43-0147	60 – 80 %	ethanol	Flam. Liq. 2, H225	

SECTI	SECTION 4. First aid measures			
4.1.	Description of first aid measures			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.		
	Following skin contact:	Remove contaminated clothing. Thoroughly wash with water for 15 minutes.		



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Product code:	HEMA-OT-X**	Date of compilation:	19 Dec 2023	Version:	6

	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 effe	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, headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration. If denaturants are present, dyspepsia may occur (such as vomiting).	
4.3.	Indication of any immediate medic	al attention and special treatment needed	
	No information available		

SECTION	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 substance or mixture				
	Hazardous combustion products:	Incomplete combustion of the product.			
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				
	-				

SECTION 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	



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	Bunding, covering of	Sand protective barrier or barriers made of similar materials				
6.3.	Methods and material f					
	•	•	it further spillage of chemicals. Prevent environmental pollution by he sewage system, surface water or groundwater.			
6.2.	Environmental precauti	ons:				
	Self-contained open-circuit compressed air breathing apparatus, a set for protecting the body from heat dissipation (fireproof clothing).					
6.1.2.	For emergency respond	nergency responders:				
	Emergency procedures:		Emergency procedures: condition, use all allowed means of containing		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.	
	Accident prevention me	Secure a safety zone, remove all ignition sources, and in case accident inform the Emergency service (112) and the manufacturer or sender. Position a prohibition sign with syrting of flame and devices that cause sparks.				
	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.			

SECTIO	CTION 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.					



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7.2.	Conditions for safe storage, including any incom	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	Keep in a well-ventilated place. Keep away from heat and direct solar radiation.				
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:	-				
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				

SECTION	N 8. Exposur	e contro	ols/persona	I prote	ection				
8.1.	Control para	meters							
Substance		CAS No		·	Occupational exposure limit values/short term values		Biological limit values		
					ppm	mg/n	n³		
Ethanol			64-17	<b>-</b> -5	1000/-	1900	/-		-
Ethylene glycol			107-2	1-1	20/40	52/10	)4		-
Substanc	ce: -								
EC No:	-		CAS No:	-					
DNEL				·					
					Industrial				
Davida al	<b>6</b>	A	Acute		Acute	Chronic			Chronic
Koute of	f exposure:	effe	ect local effe		fect systemic	effect local			effect systemic
Oral		-		-		-			-
Inhalation 1900 (ethan		mg/m³ ol)	-		35 mg/ kg (ethylene glycol)			380 mg/m³ (ethanol)	
Dermal		-		1		-			343 mg/kg (ethanol) 106 mg/kg (ethylene glycol)
Critical p	hysical parar	neters: s	olubility, fla	mmabi	lity, corrosivity:				
					Consumer				



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Product code:	HEMA-OT-X**	19 Dec 2023	Version: 6			
Route of exposu	re: Acute effect local	Acut effect sys	-	Chronic effect local	Chronic effect systemic	
Oral	-	-		-	-	
Inhalation	950 mg/m³ (ethanol)	-		7 mg/kg (ethylene glycol)	114 mg/m³ (ethanol)	
Dermal	-	-		-	206 mg/kg (ethanol) 53 mg/kg (ethylene glycol)	
PNEC						
Environmental pro	otection target		PNEC			
Fresh water			_	l (ethanol) ethylene glycol)		
Freshwater sedime	ents		_	g (ethanol) g (ethylene glycol)		
Marine water			0.79 mg/l (ethanol) 1 mg/l (ethylene glycol)			
Marine sediments			2.9 mg/kg (ethanol) 3.7 mg/kg (ethylene glycol)			
Food chain			380-720	mg/kg (ethanol)		
Microorganisms in	n sewage treatment		580 mg/l (ethanol) 199.5 mg/l (ethylene glycol)			
Soil (agricultural)			0.63 mg/kg (ethanol) 1.53 mg/kg (ethylene glycol)			
Air				nation available		
•	sure controls					
Subs	neering measures tance/mixture related ment exposure during ide		Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	tural measures to preve		No information available			
Orga expo	nisational measures to p sure:	prevent	Organization of work in order to reduce other worker's influence during work process.			
Tech expo	nical measures to preve sure:	nt	See Sectio	n 7.2		
8.2.2. Perso	onal protection equipme	ent				



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8.2.2.1.	Eye and face protection:	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		
		Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374.	
	Hand protection:	Glove material: nitrile rubber	
		Glove thickness: ≥0.50 mm	
		Break through time: >480 min	
	Other skin protection:	During everyday work use cotton clothing and suitable footwear, such as rubber boots or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.	
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No information available	
8.2.3.	Environmental exposure controls		
	Substance/mixture related measures to prevent exposure:	See Section 6	
	Structural measures to prevent exposure:  Use modern equipment.		
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.	
	Technical measures to prevent exposure:	See Section 6	

SECTI	SECTION 9. Physical and chemical properties					
9.1.	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	brown	No information available			
	Odour/odour threshold:	ethanol like/no information available	No information available			
	Melting point / freezing point:	No information available	No information available			
	Boiling point or initial boiling point and boiling range:	No information available	No information available			
	Flammability:	No information available	No information available			



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	Lower and upper explosion limit:	No information available	No information available
	Flash point:	20°C	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	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.				
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.				

SECTION 11. Toxicological information										
11.1.	Informat	Information on hazard classes as defined in Regulation (EC) No 1272/2008								
	Acute toxicity:									
Route o		Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results				
Oral:		No information available	rat	LD <sub>50</sub>	-	7.060 mg/kg (ethanol) 7.712 mg/kg (ethylene glycol)				



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Product code:	HEMA-OT-X**	HEMA-OT-X** Date of compile		lation:	tion: 19 Dec 2023		Version: 6	
Dermal:	No information available	rabbit	LD <sub>50</sub>	-		>3.50	000 mg/kg (e 00mg/kg lene glycol)	thanol)
Inhalation:	No information available	rat	rat I ( co		h ethanol)	>8.00	>8.000 mg/l (ethanol)	
Specific t	arget organ toxici		•					
	•	cific effects			arget or	<u> </u>		Note
Oral:	No information			No inform			-	
Dermal: Inhalation:	No information			No inforr			-	
iiiiaiatioii.	NO IIIIOIIIIatioi	i avallable		INO IIIIOII	iiatioii a	valiable		
Aspiratio	n hazard:		No inform	nation avail	able			
Irritation	and corrosion							
:	Exposure	time	Species	Evaluat	ion	Method	[	Vote
Skin corrosion/irritation	- n:	-		-	_		No available	informatio
Serious eye damage/irritation	-	_		-	-		No available	informatio
Sensitiza	tion:							
Skin sensitization:	No information	available						
Respiratory sensitization:	No information	available						
	:							
Sympton	ns related to the p	hysical, che	mical and to	xicological	charact	eristics		
Oral exposure:	It may lead to do loss of conscious present, dysper	usness afte	r exposure to	o higher le	vels of c		_	
Dermal exposure:	Defatting, dry s		- (					
Inhalation exposure:	May cause eye Bronchoconstri vertigo, intoxic concentration.	irritation an	ssible. Possik	ole sympto	ms inclu	de CNS syı	mptoms such	as headach
Eye exposure:	Splatter may callesions.	use discon	nfort, stingin	g sensatio	n, conjur	nctival redr	ness, corneal	surface



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Trade name:		HEMATOXYLIN, WEIGERT A							
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	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	_
Subacute dermal	No information available	No information available	No information available	No information available	No information available	_
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	_
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	_
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	_
Chronic oral	No information available	No information available	No information available	No information available	No information available	_
Chronic dermal	No information available	No information available	No information available	No information available	No information available	_
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

Specific target	organ toxicity – repeated exposur	e (STOT RF):	
Specific target	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	-



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Chronic	Chronic dermal No information available Chronic inhalation No information available		No information available	-		
Chronic			No information available -			
	CMR effects (d	carcinogenicity; mutagenicity; re	eproductive toxicity)			
	Carcinogenici	ty:	No information available			
	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			
	Summary of properties:	f evaluation of the CMR	-			
11.2.	Information o	n other hazards:				
11.2.1.	Endocrine dis	rupting properties:				
	No known e that affect hu	ndocrine disrupting propertie man health.	S			
11.2.2.	Other informa	ation:				
	_					

SECTION 12. Ecological information:									
12.1. Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC <sub>50</sub>	96 hours	Fish	No information available	8.140 mg/l (ethanol) 72.860 mg/l (ethylene glycol)	-			
Crustacea:	EC <sub>50</sub>	48 hours	water flea	No information available	7.800 mg/l (ethanol) >100 mg/l (ethylene glycol)	-			
Algae/aquatic plants	IC <sub>50</sub>	72 hours	algae	No information available	5.000 mg/l (ethanol) 6.500-13.000 mg/l (ethylene glycol)	-			
Microorganisms	_	-	No information available	No information available	No information available	_			



Value

Species

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Chronic ( toxicity	long-term	Dose	Exposure time	Species	Method	Evaluation	Note
Fish		LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustace	a:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aq	uatic plan	ts IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Microorg	janisms	-	-	-	-	-	-
12.2.	Persistenc	e and degrada	bility				
		gradation					
		Degradation	half-lives	Meth	od	Evaluation	Note
Marine w	ater N	o information	available	No information available		No information available	-
Fresh wa	ter N	o information	available	No information	available	No information available	-
Air	N	o information	available	No information available		No information available	-
Soil	N	o information	available	No information available		No information available	-
	Biodegrac	lation					
% Degra		Time (day	/s)	Method	Eval	uation No	ote
-		_	-		-	-	
		ulative potenti					
		oefficient: n-o					
Value	Со	ncentration	pH °	°C Metho	od Ev	valuation N	lote
-	-			-	-	-	

Method

Evaluation

Note



Haue I	name:				HE	<b>MATOX</b>	YLIN, V	VEIGE	RT A			
Produc		: HE	MA-OT-X**	Date of compilation: 19 Dec					Versic	n;	6	
						1					· ·	
No infor			information ailable		No inforr available	mation		inform ilable	nation	No ii avail	nforma able	tion
	Chron	ic ecoto	xicity									
	Valu		Dose		osure me	Specie	S	Meth	od	Evalua	tion	Note
Chronic	toxicity	y on fish	LC <sub>50</sub>	No No information info		No nformatio available		o forma <sup>,</sup> vailable	tion	No inform available	nation	-
Chronic crustace			EC <sub>50</sub>	No inform availal	nation i	No nformatio available	1	o forma vailable	tion	No inform available	nation	-
12.4.	Knowi		l dicted distribut n available	ion in e	environmer	ntal comp	artment	·s:				
	Surfac	e tensio	n:									
	Va	ılue	°C	С	oncentratio	on	Me	thod			Not	e
	No inform availal		No information available		informatic ailable		informa ilable	tion		_		
	Adsor	ption / d	lesorption									
Гranspo	ort		coefficient 's constant		log Kow	Evap	Evaporation rate		Method			Note
Soil-wat	er	No available	information	No avail	informatic able	on No availa	informat able		No in available	formation	n	
Water-air No information available		No avail	informatic able	on No availa	informat able		No in available	information _				
Soil-air		No available	information	No avail	informatic able		No information available		No information - available		<b>1</b> _	
		(	and vPvB asse									
12.5.	D .											



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	Trade name:					
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12.6.	Endocrine disrupting properties					
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.					
12.7.	Other adverse effects					
	No adverse effects are expected.					
SECTIO	N 13. Disposal considerations					
13.1.	Waste treatment methods					
13.1.1.	Product/Packaging disposal:					
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.					
13.1.2.	Waste codes/waste designations according to Law:					
	No information available					
13.1.3.	Waste treatment – relevant information:					
	No information available					
13.1.4.	Sewage disposal – relevant information:					
	Waste must not be disposed of into the sewage system.					
13.1.5.	Other disposal recommendations:					
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.					
13.1.6.	Relevant Community provisions:					
SECTIO	N 14. Transport information					
	Transporting/shipment by road (ADR)					
UN nur	mber: 1170					
UN pro	per shipping name: Ethanol solution					



Trade name:

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Product code: HEMA-OT-X**	Date of compilation: 19 Dec 2023 Version: 6
Transport hazard class(es):	3
Packing group:	II .
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II .
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by inland	waterways (ADN)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-



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SECTION	ON 15. Regulatory informa	ation
15.1.	Safety, health and environ	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 19 guideline)	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
15.2.	Chemical safety assessme	ent
	None	

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



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16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  IMDG: International Maritime Code for Dangerous Goods  IATA: International Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals  EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent  PBT: Persistent, Bioaccumulative and Toxic  vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classifi	cation	Classification procedure		
-		-		
16.5.	Relevant H statements (num	ber and full text)		
	H: 225 302	Highly flammable liquid and vapor. Harmful if swallowed.		
16.6.	Training advice:	-		
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.		

Α	N	П	N	П	F	Y	7-
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**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 



## **SAFETY DATA SHEET**

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Trading name:	RESORCINE FUCHSIN REAGENT						
Product code:	RFR-OT-X**	Revision date:	21 Dec 2022	Version:	4		

1.1		ON 1: Identification of the substance/mixture and of the company/undertaking  Product identifier				
	Trading name:	RESORCINE	FUCHSIN	I REAGENT		
	Chemical name:	-	-			
	Catalogue number:	RFR-OT-X**				
1.2	_	es of the subst	ance or n	nixture and uses advised against		
	Uses:		For use kits.	with Elastica-Van Gieson and Weigert-Van Gieson staining		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advi	sed against:	duct is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes.			
1.3	Details of the supplier	of the safety	data shee	t		
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone number					
	National Protection ar	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No 1	272/2008 (CLP)			
	Hazard class and category code:	Hazard statements*:			
	Flam. Liq. 2	H225			
	Carc. 1B	H350			
	Skin Irr. 2	H315			
	Eye Irr. 2	H319			
2.1.2.	Additional information				
	-				
*For ful	ll text of Hazard- and EU Hazard-statements: see S	SECTION 16			
2.2	Label elements				



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	Product identification:	RESORCINE FUCHSIN REAGENT
	Identification number:	-
	Authorization number:	-
	Hazard pictograms:	GHS02 GHS07 GHS08
	Signal word:	Danger
	Hazard statements:	<ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H350 May cause cancer.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> </ul>
	Precautionary statements:  Supplemetal hazard	P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke.  P233 Keep container tightly closed.  P280 Wear protective gloves/protective clothing/eye/protection/face protection.  P302+P352 IF ON SKIN: Wash with plenty of water and soap.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P308 + P313 IF exposed or concerned: Get medical advice or attention.
	information (EU):	
2.3	Other hazards	



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**Endocrine Disrupting Properties:** 

No known endocrine disrupting properties

Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610- 43-0147	80 - 100%	ethanol	Flam. Liq. 2; H225			
569-61-9/ 209-321-2/ 611-031-00-X	-	1 -2 %	4,4'-(4-iminocyclohexa-2,5-dienylidenemethylene) dianiline hydrochloride (C.I. Basic Red 9)	Carc 1B; H350			
7647-01-0/ 231-595-7/ 017-002-00-2	-	2 -3 %	hydrochloric acid, 37%	Skin Corr. 1B; H314 STOT SE 3; H335			

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



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	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, headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration. If denaturants are present, dyspepsia may occur (such as vomiting).
4.3	Indication of any immediate me	edical attention and special treatment needed
	-	

SECTIO	CTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products: Formation of toxic gases is possible during heating or in case of fire.				
5.3	Advice for firefighters				
	Use a self-contained open-circuit o	compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.			

SECTIO	ECTION 6. Accidental release measures				
6.1	Personal precautions, protective	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 conta with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).				



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

SECTIO	ECTION 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generation	:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Tho	roughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incomp	oatibilities			
	Technical measures and storage conditions: well vent		phtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials: Manufac		nufacturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.			



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

SECTION 8. Exposure controls/personal protection										
8.1 Contro	l parai	meters								
Substance			CAS No			Occupational exposure limit values/short term values		Bi	ological limit values	
						рр	m	mg/m³		J
Ethanol			64-	-17-5		100	0/-	1900/-		-
Hydrogen chlori	ide		7647	7-01-0		5/1	10	8/15		-
Substance name: -										
EC No:		_	CAS No	•	_					
DNEL										
Industrial										
Route of		Acu	ite		Acute	e		Chronic		Chronic
exposure:		effect	local	effe	ct sys	temic		effect local		effect systemic
Oral	_			-			-		-	
Inhalation		900 mg ethanol)		-			-		38	0 mg/m³ (ethanol)
Dermal	-			1			-		34	3 mg/kg (ethanol)
Critical physical	paran	neters: s	olubility,	flamm	ability	y, corros	sivity:	-		
						Cons	umer			
Route of		Ad	cute		Acut	e		Chronic		Chronic
exposure:		effec	t local	effe	ct sys	temic		effect local		effect systemic
Oral		-		-			-		87	mg/kg bw/day (ethanol)
Inhalation		950 m (ethan	_	-			-		114	4 mg/m³ (ethanol)
Dermal		-		-			-		20	6 mg/kg (ethanol)



PNEC

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Environm	nental protection target		PNEC		
Fresh wat	ter		0.96 mg/l (ethanol)		
Freshwate	er sediments		3.6 mg/kg (ethanol)		
Marine w	ater		0.79 mg/l (ethanol)		
Marine se	ediments		2.9 mg/kg (ethanol)		
Food cha	in		380-720 mg/kg kg (ethanol)		
Microorg	anisms in sewage treatment		580 mg/l (ethanol)		
Soil (agri	cultural)		0.63 mg/kg (ethanol)		
Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls	5			
	Substance/mixture related measures to prevent exposure during identified uses:		Use 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	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	levels	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection				
	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min			
	Other skin protection:	footwe entire imperr	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 chemical PVC, himex) and footwear made from the same material.		



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

l	Information on basic physical and o	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	dark violet	No information available
	Odour/odour threshold:	alchohol like/no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	17 °C	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available



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9.2	Other information
	-

SECTION	ON 10. Stability and reactivity	
10.1	Reactivity:	See subsections 10.3 through 10.5.
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No dangerous reactions known.
10.4	Conditions to avoid:	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.

	oxicological inforration on hazard cla		l in Regul	ation (EC) No 127	72/2008		
	toxicity:			(= 0, 110 1=1			
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:	-	rat		LD <sub>50</sub>	-		7.060 mg/kg (ethanol) 5.000 mg/kg (Basic Red 9)
Dermal:	-	rabbit		-	_		>20.000 mg/kg (ethanol)
Inhalation:	-	rat		LC <sub>50</sub>	4 h		>8.000 mg/l (ethanol)
Specifi	c target organ toxic	ity – single exp	oosure (S	ΓΟΤ SE):			
	Spe	cific effects		Target o	organ		Note
Oral:	No information	n available		No information	available	-	
Dermal:	No information	n available		No information	available	-	
Inhalation:	No information	n available		No information	available	-	
Aspirat	tion hazard:		No inforn	nation available.			
Irritatio	on and corrosion						
- · ·	Exposi	ıre time	Speci	es Evaluati	on Method		Note



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<b>_</b>								
Skin corrosion/irritation	- -		-		_			
Serious eye	UII.							
damage/irritation	n –		-		-	-		
-	·		· ·		1	i		
Sensitiz	ation							
Skin sensitization	ղ:	No inf	ormation avail	able.				
Respiratory sens	itization:	No inf	ormation avail	able.				
Sympto				al and toxicolog	gical characterist	rics		
Oral exposure:			on available.					
Dermal exposure			on available.					
Inhalation expos			on available.					
Eye exposure:	No i	nformati	on available.					
Repeate	ed dose tox	icity (sub	acute, subchro	onic, chronic)				
	Dos	se	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No info	rmation	No information available	No information available	No information available	No information available	-	
Subacute dermal	No info	rmation	No information available	No information available	No information available	No information available	-	
Subacute inhalation	No info	mation	No information available	No information available	No information available	No information available	-	
Subchronic oral	No info	rmation	No information available	No information available	No information available	No information available	-	
Subchronic dermal	No info	rmation	No information available	No information available	No information available	No information available	-	
Subchronic inhalation	No info	rmation	No information available	No information available	No information available	No information available	-	
Chronic oral	No info	rmation	No information available	No information available	No information available	No information available	-	



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Chronic dermal	No availa	information ble	No information available	No information available	No information available	No information available	on -
Chronic inhalation	No availa	information ble	No information available	No information available	No information available	No information available	on -
c :c:				(CTOT	DE)		
Specific	target	organ toxicit	<u> </u>	xposure (STOT			Note
Cula auta aval		NI- :	Specific effect	its	Target o		Note
Subacute oral Subacute dermal			tion available		No information		_
Subacute inhalat			tion available		No information		_
Subchronic oral	1011		tion available		No information		_
Subchronic derm			tion available		No information		_
Subchronic inhal			tion available		No information		_
Chronic oral	ution		tion available		No information		-
Chronic dermal			tion available		No information		_
Chronic inhalatio	n		tion available		No information		_
CMR eff	ects (ca	arcinogenicity	y; mutagenicity	y; reproductive	toxicity)		
Carcino	genicity	<i>r</i> :	be	probably carcin	•	n its IARC, O	nas been reported to SHA, ACGIH, NTP, or
Mutage	nicity <i>ii</i>	n vitro:	Ва	sed on available	e data, the classif	ication crite	ria are not met.
Genoto					e data, the classif		
Mutage	nicity <i>ii</i>	n vivo:	Ва	sed on available	e data, the classif	ication crite	ria are not met.
Germ ce	ell muta	genicity:	Mo	ouse – Oral: DN	A damage		
Reprodu	uctive t	oxicity:	Ва	sed on available	e data, the classif	ication crite	ria are not met.
Summa	•	evaluation	of the CN	MR Based on met.	available data, t	he classifica	ation criteria are no
11.2 Informa	tion on	other hazard	ds:				
11.2.1. Endocrii		upting prope					



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

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	8.140 mg/l (ethanol)	-
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	algae	No information available	5.000 mg/l (ethanol)	-
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	<b>-</b>
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	-	-	-	-	-	-
12.2 Persistence a	nd degradal	bility				
Abiotic degra	dation					
De	gradation h	alf-lives	Method	Evaluatio	on 📗	Note



									rage	13 01 18	
Trading name	:			RE	SORCINE FU	CHSIN	N REAG	ENT			
Product code		RFR-OT-X* <sup>*</sup>	k	Rev	ision date:	21	Dec 20	22	V	ersion:	4
Marine water	No	information	available	No inf	ormation	No inf	formation ble	n			
Fresh water	No	information	available		ormation		formatio	n -	•		
Air	No	information	available	No inf availal	ormation ole	No inf	formation ble	n -	•		
Soil	No	information	available	No inf availal	ormation ole	No inf availal	formation ble	n -	•		
Biode	oradat	ion									
% Degradati		Time	(days)	ı	Method	E	valuatio	n		Note	
No information		No i	nformation	No inf	formation	No inf	formatio	n N		ormation	
available		available		availa	ole	availal	ble	ā	availab	ole	
l											
	i	i		i	i			i			
12.3 Bioacc	umula	ative potenti	al								
Octan	ol-wat	er partition	coefficient	(log Kow	<i>ı</i> )						
Value	Conc	entration	рН	°C	Method		Evalu	ation		Note	
			-	-	-	-			-		
Biocor	ncentr	ation factor	(BCF)			:					
Value		Spec	ies		Method		Evaluati	on		Note	
No information available		No ir available	nformation	No inf availat	ormation ole	No i avail	nformati able	on	-		
	i							:			
Chron	ic eco	toxicity									
Value	9	Do	ICA :	posure time	Species	Me	ethod	Evalua	tion	Note	3
Chronic toxicity	on fis	sh LC <sub>50</sub>	No info	rmation	No information	No infor	mation	No informa	tion	-	

available

available

available

available



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Trading	name:			RESC	DRCINE F	UCHSIN	REAGE	NT		
Product	t code:	RFR	R-OT-X**	Revisi	on date:	21 D	ec 2022	2	Version:	4
	toxicity c a ( <i>Daphn</i>		EC <sub>50</sub>	information	No informatio available	No n inform availab	ation	No information available	-	
12.4	Mobility	in soil								
	Known	or predi	cted distributi	on in environme	ntal comp	artments:				
	No infor	mation	available							
	Surface	tension	•							
	Valu	e	°C	Concentrati	on	Metho	od		Note	
	No informat available	ion	No information available	No information		informatio ilable	n	-		
	Adsorpt	ion / de	esorption							
Transpo	rt	=	oefficient s constant	log Kow	Evapor	ation rate	N	lethod	Note	
Soil-wat	er No ava	ilable	information	No information available	No info availab	ormation le	No inf availal	ormation ole	-	
Water-a	ir No ava	ilable	information	No information available	No info	ormation le	No inf availal	ormation ole	-	
Soil-air	No ava	ilable	information	No informatior available	No info	ormation le	No inf availal	ormation ole	-	
12.5	Danilla	- f DDT -								
12.5			and vPvB asses		annonts se	ncidarad t	o havo d	ndocrino di	crupting prop	ortion
	accordin	g to RE	ACH Article 5	not contain comp 7(f) or Commission evels of 0.1% or	on Delega					
12.6.	Endocrir	ne disru	pting properti	es						
	accordin	g to RE	ACH Article 5	not contain comp 7(f) or Commission evels of 0.1% or	on Delega					
10-	0.1									
12.7	Other ac			" 1 1						
	NO furth	er relev	ant information	on available.						



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Trading name:		RESORCINE FUCI	ISIN REAGENT		
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13.1	Waste treatment metho	ds
13.1.1.	Product/Packaging disp	osal:
	Submit for disposal to the Protection.	ne legal person authorized by the Ministry of Environmental and Nature
13.1.2.	Waste codes/waste desi	gnations according to Law:
	Packaging that contains	residual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relev	ant information:
	No information available	
13.1.4.	Sewage disposal – releva	ant information:
	Waste must not be disp	osed of into the sewage system.
13.1.5.	Other disposal recomme	endations:
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors try in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge.
13.1.6.	Relevant Community pro	ovisions:
13.1.6.		ovisions: according to official regulations.
	Disposal must be made	according to official regulations.
	Disposal must be made  N 14 TRANSPORT INFORI	according to official regulations.  MATION
SECTIO	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by	MATION road (ADR)
<b>SECTIO</b> UN num	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by hber:	MATION road (ADR) 1170
<b>SECTIO</b> UN num	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by	MATION road (ADR)
SECTIOI UN num UN prop	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by hber:	MATION road (ADR) 1170
SECTIOI UN num UN prop	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by ober:  Der shipping name:  rt hazard class(es):	MATION road (ADR) 1170 Ethanol solution
SECTIO UN num UN prop Transpo Packing	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by ober:  Der shipping name:  rt hazard class(es):	MATION road (ADR)  1170 Ethanol solution 3
SECTION UN num UN prop Transpo Packing Environ	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by ober:  Der shipping name:  rt hazard class(es):  group:	MATION road (ADR)  1170 Ethanol solution 3
SECTION UN num UN prop Transpo Packing Environ	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by ober:  Der shipping name:  rt hazard class(es):  group:  mentally hazardous:	MATION road (ADR)  1170 Ethanol solution 3 II
SECTION UN num UN prop Transpo Packing Environ	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by  aber:  per shipping name:  rt hazard class(es):  group:  mentally hazardous:  precautions for user:  Transporting/shipment by	MATION road (ADR)  1170 Ethanol solution 3 II
SECTION UN num UN prop Transpo Packing Environ Special	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by  aber:  per shipping name:  rt hazard class(es):  group:  mentally hazardous:  precautions for user:  Transporting/shipment by	MATION road (ADR)  1170 Ethanol solution 3 II rail (RID)
UN num UN prop Transpo Packing Environr Special p	Disposal must be made  N 14 TRANSPORT INFORI  Transporting/shipment by ober:  Der shipping name:  Int hazard class(es):  group:  mentally hazardous:  precautions for user:  Transporting/shipment by ober:	MATION  road (ADR)  1170  Ethanol solution  3  II  rail (RID)  1170



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Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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



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	None		
15.2	Chemical safety assessme	nt	
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)		
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVIII);	

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



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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	Classification		Classification procedure		
-			-		
16.5.	Rele	evant H statements (num	ber and full text)		
		H225	Highly flammable liquid and vapor.		
		H314	Causes severe skin burns and eye damage		
		H315	Causes skin irritation.		
	H:	H319	Causes serious eye irritation.		
		H335	May cause respiratory irritation.		
		H350	May cause cancer.		
16.6.	Training advice:		-		
			** "X" in the product code marks different volumes (different packagings of the product)		
16.7. Further information:		ther information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment
-