

## WEIGERT-VAN GIESON KIT

### **VERSION 3**

The kit contains:

Ferri reagent, Weigert B
Fuchsin Acid Van Gieson reagent
HCL reagent, Weigert-Van Gieson
Hematoxylin, Weigert A
Periodic acid, 0.8% solution
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		

1.1.	Product identifier				
	Trading name:	FERRI REAGENT, WEIGERT B			
	Chemical name:	-			
	Catalogue number:	FR-OT-X**			
1.2.	Relevant identified us	es of the subst	tance or mix	xture and uses advised against	
	Uses:		For use in	special staining kits.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advi	sed against:	medical d	uct is intended for use only as an <i>in vitro</i> diagnostic evice, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes	
1.3.	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier: Bi		ioGnost Ltd.		
	Address:	М	Medjugorska 59, Zagreb		
	Telephone number: +		+385 1 2409997		
	Fax no.: +		+385 1 2404039		
	e-mail of competent p	person: <u>m</u>	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 INFORMATION						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regula	tion (EC) No 12	72/2008 (CLP)				
	Hazard class and category	code:		Hazard statements*:			
	Not identified as hazardous substance						
2.1.2.	Additional information						
	-						
*For ful	l text of Hazard- and EU Hazard-sta	atements: see Se	ection 16				
2.2.	Classification according to EC Dire	ective Nr. 1272/	2008 CLP)				
	Product identification:	FERRI REAGEN	NT, 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			
	Endocrine Disrupting Properties	s:		
	No known endocrine disrupting p	properties		
	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not			
	PBT or a vPvB.			

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



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		Inhelation of large amounts of vanors in inadequately ventilated norimeter
	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
	-	

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

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES					
6.1.	Personal precautions, protective 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 barriers.					
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.					
6.3.3.	Other information:	-					
6.4.	Reference to other sections						
	-						

SECTIO	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. The	proughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incomp	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.			
	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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Produ	ıct code:	FR-OT-	<b>X</b> **	R	evisio	n date:	21 Dec 202	2 Ver	rsion:	5
	Further ir	ner 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 e	nd use(s)								
	Recomm	endations:				-				
	Industrial	sector spe	cific solutio	ns:		-				
	ON 8 EXPO		TROLS/PER	RSONAL	PROTI	ECTION				
8.1.	Control p	arameters			I			I		
	Culturation of	_	CAC	NI -			exposure limit term values	D:	. 1	Santa and bank
	Substance	е	CAS	NO		opm	mg/m <sup>3</sup>	BIC	ological limit values	
Hvdro	gen chloride	<u> </u>	7647-0	01-0	1	5/10	8/15			
<b>y</b>	9			<u> </u>			-, -			
Substa	-									
EC No:	:		CAS No:	-						
DNEL										
					Ind	ustrial				
Route expos			Acute ect local	Acute effect systemic			Chronic effect local		eff	Chronic ect systemic
Oral		-		-			-		-	
Inhalat	tion	-		-			-		-	
Derma	al	-		-			-		-	
Critica	l physical pa	rameters: s	solubility, fla	mmabilit	ty, corr	osivity:	-			
					Cor	sumer			1	
Route expos			Acute ect local	effe	Acute		Chron effect lo		eff	Chronic ect systemic
Oral		-		-			-		-	
Inhalation		-			-		-			
Derma	al	-		-			-		-	
PNEC										
Environmental protection target					PNEC					
Fresh v	water					No information available				
Freshw	vater sedime	ents				No infor	mation availabl	е		_
Marine water				No information available						



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Marine se	diments			No information available			
Food chai	n			No information available			
Microorga	anisms in sewage treatment			No information available			
Soil (agric	cultural)			No information available			
Air				No information available			
8.2.	Exposure controls						
8.2.1.	Engineering measures						
	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:		_	zation of work in order to reduce other worker's influence work process.			
	Technical measures to pre exposure:	event		proper workspace ventilation in order to keep tration levels in air below permitted levels.			
8.2.2.	Personal protection equipment						
8.2.2.1.	Eye and face protection:		Safety o	glasses that stick to face (preventing splashing) (EN 166) or			
8.2.2.2.	Skin protection	Skin protection					
	Hand protection:		ard EN 37 Glove n Glove tl	es must be according to the EU Directive 2016/425/EEC and 4.  naterial: nitrile rubber  hickness: ≥0.50 mm  hrough time: >480 min			
	Other skin protection:	Wear antistatic		atic 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 f	or organi	ace mask (EN 136) or half mask (EN 140) equipped with a c vapors, type "A" (boiling point >65°C) acording to EN nen 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 Section 6				
	Structural measures to pre exposure:	event	Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				



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

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

SECTIO	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.

SECTION 11 TOXIC	COLOGICAL INFORMA	ATION				
11.1. Informatio	n on hazard classes as	defined in Regu	lation (EC) No 12	72/2008		
Acute toxi	city:					
Route of exposure:	Method	Species	Effective dose $LD_{50}/LC_{50}$ or $ATE_{mixture}$	Exposure t	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>	-	-	
Specific ta	rget organ toxicity – si	ngle exposure (S	TOT SE):			
	Specifi	c effects	Targe	torgan	Note	
Oral exposure:	No information a	available	No informati	on available	-	
Dermal exposure:	No information a	available	No informati	No information available -		
Inhalation exposure	e: No information a	available	railable No information available		_	
Respirator	y irritation:	No inforr	nation available			
Irritation a	nd corrosion					
:	Exposure time	Species	Evaluation	Method	Note	
Skin irritation:	-	rabbit	-			
Eye irritation:	-	rabbit	-	-		
Sensitization	on					
Dermal exposure:	No information avail	able				
Inhalation exposure: No information available						
Computer	rolated to the shurt-	l chamical and t	ovicelegical share	octorictics		
Oral exposure:	Swallowing may constant sensation; higher land concentration may	ause irritation of evels of concent g, aspiration caus	mucosa, tingling ration may cause ses coughing, diff	sensation in th	ninal pain and vomitin	



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Dermal exposure	2:			•	orption effects are ensation of skin.	e not likely. Long	-term exposu
Inhalation expos	ure:		-	s of vapors in i che and nause	nadequately vent a.	ilated perimeter	may cause
Eye exposure: Direct eye co			ontact may cau	se slight to mo	oderate irritation,	lacrimation and	burning
Repeate	ed dos	se toxicity (sub	acute, subchro	onic, chronic)			
1		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		information ilable	No information available	No information available	No information available	No information available	-
Chronic oral		information lable	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available		No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available		No information available	No information available	No information available	No information available	-
Specific	targe	et organ tovicit	v – reneated e	xposure (STOT	RE)·		
Specific	tai ge		pecific effects		Target orga	an	Note
Subacute oral			ation available	N1 -	information avai		



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Subacu	te dermal	No informatio	n available	No information available	_			
Subacu	te inhalation	No informatio	n available	No information available	-			
Subchro	onic oral	No informatio	n available	No information available	-			
Subchro	onic dermal	No informatio	n available	No information available	-			
Subchro	onic inhalation	No informatio	n available	No information available	-			
Chronic	oral	No informatio	n available	No information available	-			
Chronic	dermal	No informatio	n available	No information available	-			
Chronic	inhalation	No informatio	n available	No information available	-			
				roductive toxicity)	prein aganis offacts			
	Carcinogenicity			s on test animals did not indicate ca				
	Mutagenicity i	n-vitro:	Current <i>in vitro</i> tests did not indicate mutagenic effects.  No information available					
	Genotoxicity:	n vivo:			c offocts			
	Mutagenicity i		No informatio	o tests did not indicate mutageni	c effects.			
	Reproductive t			n reproductive organs was deter	mined in reproductiv			
	Summary of ev	valuation of the	CMR properties:	-				
11.2	Information or	n other hazards:						
11.2.1.	Endocrine disr	upting propertie	s:					
	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							
	higher.							
11.2.2.	Other informations:							

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	-

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

### 12.3. Bioaccumulative potential



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	i		nt: n-octar									
Valu		oncentrat		рН	°C		ethod		Evalua		Note	
-	No avai	inform lable	ation -		_	No info			No inform Ivailable	nation	-	
	Bioconce	ntration f	actor (BC	F)								
١	<b>V</b> alue		Species			Method	l		Evaluation	on		Note
No information No informa		mation	No infa	ormatic ole	on	No i avail	nformation	on	No info availabl	rmation le		
	Chronic 6	ecotoxicit	y									
Value Dose Ex				osure ime	Spe	ecies	M	ethod	Ev	aluation	Note	
Chroni	c toxicity o	n fish	LC <sub>50</sub>	No infor avail	mation able	No infori availa	mation able	No infor avail	rmation lable	No information available		-
	c toxicity o		EC <sub>50</sub>	No infor avail	mation able			No infor avail	rmation lable	No in availa	formation ble	-
12.4.	Mobility	in soil										
	1		d distribu	ition in 4	nvironn	nental c	ompar	tmanta				
		nation av				incintal C	.ompai	ciits	·			
	Surface t		anabic									
	Value		°C	С	oncentra	ation		Met	thod			Note
	No informati available	No ion info	ormation ailable	No	informa ailable		No in	format		_		
	Adsorption	on / deso	rption									
Transp	ort	A/D coef	ficient	lo	og Kow	Εν	/aporati	ion rat	e	Method	ł	Note



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						<u> </u>					
Soil-wa	ter No available	information	No information available	No information available	No information available	-					
Water-a	air No available	information	No information available	No information available	No information available	-					
Soil-air	No available	information	No information available	No information available	No information available	-					
12.5.	Results of PBT	and vPvB asses	ssment								
	according to R	EACH Article 5	•	n Delegated regula	to have endocrine d tion (EU) 2017/2100	isrupting properties or Commission					
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 information	n available									
SECTIO	N 13 DISPOSAL	L CONSIDERA	ΓΙΟΝS								
13.1.	Waste treatm	nent methods									
	·										
13.1.1.	Product/Pack	kaging disposa	l:								
	Submit for di Protection.	isposal to the l	egal person autho	rized by the Minist	ry of Environmental	and Nature					
13.1.2.			tions according to	Law:							
	No informati	on available									
13.1.3.	Waste treatm	nent – relevant	information:								
	No informati	on available									
	:										
13.1.4.	Sewage dispo	osal – relevant	information:								
	Waste must r	not be dispose	d of into the sewa	ge system.							
13.1.5.	Other disposal recommendations:										



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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:				
	-				
SECTIO	N 14 TRANSPORT INFOR	MATION			
	Transporting/shipment by	road (ADR)			
UN num	ber:	Not subject to transport regulations.			
UN prop	er shipping name:	_			
Transpo	rt hazard class(es):	_			
Packing	group:	_			
Environr	mentally hazardous:	-			
Special p	precautions for user:	-			
	Transporting/shipment by	rail (RID)			
UN number:		Not subject to transport regulations.			
UN prop	er shipping name:	-			
Transpo	rt hazard class(es):	-			
Packing	group:	-			
Environr	mentally hazardous:	-			
Special p	precautions for user:	-			
	Inland waterway transport	(ADN)			
UN num	ber:	Not subject to transport regulations.			
UN prop	er shipping name:	-			
Transpo	rt hazard class(es):	_			
Packing	group:	-			
Environr	mentally hazardous:	-			
Special p	precautions for user:	-			
	Transporting/shipment by	sea (IMDG)			
UN number:		Not subject to transport regulations.			
UN proper shipping name:		-			
Transport hazard class(es):		-			
Packing	group:	-			
Environr	mentally hazardous:	-			
Special precautions for user:		-			



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Transporting/shipment by	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 product is not subject to classification.					

5.1. Safety, health and env	Safety, health and environmental regulations/legislation specific for the substance or mixture			
EU regulations				
Authorization and/or	restrictions of use			
Authorizations:	-			
Restrictions:	-			
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:		FERRI REAGE	NT, WEIGERT B	_	
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	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 used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classif	ication	Classification procedure			
_		-			
16.5.	Relevant H statements (numb	er 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.	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.			



### **SAFETY DATA SHEET**

## BIOGNOST® According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading name:	FERRI REAGENT, WEIGERT B					
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ANNEX:
EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT
-



### **SAFETY DATA SHEET**

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

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

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	FUCHSIN A	CID VAN (	GIESON REAGENT		
	Chemical name:	-				
	Catalogue number:	FAG-OT-X*	FAG-OT-X**			
1.2	Relevant identified use	es of the subst	tance or n	nixture and uses advised against		
	Uses:		For use	with special staining kits.		
	Uses advised against:		Only the	identified uses are advised.		
	Reason why uses advi	sed against:	device, r	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	National Protection and Rescue Direct Medical information:		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 cat	egory code:	Hazard statements*:			
	Not identified as hazardous	substance.	-			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16			
2.2	Label elements					
	Product identification:	FUCHSIN ACID	VAN GIESON REAGENT			
	Identification number: -					
	Authorization number: -					
	Hazard pictograms: -					



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Trading name:		FUCHSIN ACID VAN GIESON REAGENT				
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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	<b>Endocrine Disrupting Propert</b>	ies:		
	No known endocrine disrupting	g properties		
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is no 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		

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:	-	



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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		
	-		

SECTIO	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 f	ull jet			
5.2	Special hazards arising from the substance or m	Special hazards arising from the substance or mixture			
	Hazardous combustion products: no informati	on available			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed a	r breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with water spray. Contaminate the environment with extinguishing	Collect contaminated fire fighting water separately. Do not g media.			

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



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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	formation.		

SECTIO	ON 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generation:		Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	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 incompatibilities				
	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	curer's original packaging.		
	Requirements for storage rooms and vessels:  Keep away tightly close		ay from food and drink. Keep the containers osed.		
	The storage must be remark to the storage must be remarked to the storage and the storage must be remarked to the storage and the storage must be remarked to the storage and		e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper .		



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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:	-			

<b>SECTION 8. Expos</b>	ure contr	ols/perso	nal pr	rotect	ion				
8.1 Control pa	rameters								
					Оссі	upational	exposure limit		
Substance		CA	S No	-	val	ues/short	term values		Biological limit values
-					ŗ	opm	mg/m³		
			-			-	-	-	
	-								
Substance name:	-								
EC No:	-	CAS No	:	-					
DNEL									
					Ind	lustrial			
Route of	Acı	ıte		Acute	e		Chronic		Chronic
exposure:	effect	local	effe	ct syst	temic	effect local			effect systemic
Oral	-		-			-		-	
Inhalation	-		-			-			
Dermal	-		-			-			
Critical physical par	ameters:	solubility,	flamm	nability	y, corı	rosivity:	-		
					Cor	nsumer			
Route of		cute		Acute			Chronic		Chronic
exposure:	effec	t local	effe	ct sys	temic		effect local		effect systemic
Oral	-		-			-		-	
Inhalation	-		-			-			
Dermal			-						
PNEC									
Environmental prot	ection tar	get				PNEC			
Fresh water						no information available			
Freshwater sedime	nts					no information available			
Marine water						no information available			
Marine sediments						no inform	nation available		



Food chain

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

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no information available

Microorga	anisms in sewage treatment		no information available			
Soil (agric	:ultural)		no information available			
Air			no information available			
8.2	Exposure controls					
8.2.1.	Appropriate engineering controls					
	Substance/mixture related measures to prevent exposure during identified uses:  Structural measures to prevent exposure:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
			In accordance with Section 7.			
	Organisational measures to prever exposure:	nt	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exp	osure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.			
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:	levels o	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection					
	Hand protection:	-	otective gloves have to satisfy the specification of 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 t 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 meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.			
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No info	ormation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Se	ction 6			



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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

In	formation on basic physical and	chemical properties	
		Value	Method
Pl	nysical state:	liquid	No information available
C	olour:	red	No information available
0	dour/odour threshold:	no information available/no information available	No information available
Μ	lelting point / freezing point:	No information available	No information available
	oiling point or initial boiling oint and boiling range:	No information available	No information available
FI	ammability:	No information available	No information available
Lo	over and upper explosion limit:	No information available	No information available
Fl	ash point:	No information available	No information available
Α	uto-ignition temperature:	No information available	No information available
D	ecomposition temperature:	No information available	No information available
pl	H:	No information available	No information available
Ki	nematic viscosity:	No information available	No information available
So	olubility:	No information available	No information available
	artition coefficient n- ctanol/water (log value):	No information available	No information available
V	apour pressure:	No information available	No information available
D	ensity and/or relative density:	No information available	No information available
Re	elative vapour density:	No information available	No information available
Pa	article characteristics:	No information available	No information available
0	ther 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 Inform	ation on haz	zard classes	as defined in	n Regula	ation (EC) No 12	272/20	800		
Acute 1	toxicity:								
Route of exposure:	М	ethod	Species	Dos	e LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	E	Exposure tir	ne	Results
Oral:	No inf availat	ormation ble	-	No information available			-		-
Dermal:	No inf availat	ormation ble	-	No information available			-		-
Inhalation:	No inf availat	ormation ble	-	No ir availa	nformation able		-		-
Specifi	c target org	an toxicity –	single expo	sure (ST	OT SE):				
		Specific	effects		Target organ				Note
Oral:	No inf	ormation av	ailable		No information available			-	
Dermal:	No inf	ormation av	ailable		No information available			-	
Inhalation:	No inf	ormation av	ailable		No information	n availa	able	-	
Aspirat	tion hazard:		No	o inform	ation available.				
			3						
Irritatio	on and corro	sion							
		Exposure t	ime	Specie	es Evalua	tion	Method		Note
Skin corrosion/irritat	ion:		-		-		-	-	
Serious eye damage/irritatio	on -		-		-		-	-	
Sensiti	zation								
Skin sensitizatio	n:	No inforr	nation availa	able.					
Respiratory sens	sitization:	No inforr	nation availa	able					



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Oral exposure:		Harmful if sw	allowed.				
Dermal exposure	<b>:</b>	Harmful if ab	sorbed throug	ıh skin. May cau	use skin irritation		
Inhalation expos	ure:	Harmful if inl	naled. May cau	ıse respiratory t	ract irritation.		
Eye exposure:		May cause ey	e irritation.				
Repeate	ed dos	e toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral		information lable	No information available	No information available	No information available	No information available	<b>–</b>
Subacute dermal		information lable	No information available	No information available	No information available	No information available	<b>-</b>
Subacute inhalation		information lable	No information available	No information available	No information available	No information available	-
Subchronic oral		information lable	No information available	No information available	No information available	No information available	-
Subchronic dermal	No avai	information lable	No information available	No information available	No information available	No information available	_
Subchronic inhalation		information lable	No information available	No information available	No information available	No information available	-
Chronic oral		information lable	No information available	No information available	No information available	No information available	_
Chronic dermal		information lable	No information available	No information available	No information available	No information available	-
Chronic inhalation		information lable	No information available	No information available	No information available	No information available	<b>-</b>



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Subacute o	ral	No information available			No information available	-
Subacute d	lermal	No information available			No information available	-
Subacute ir	nhalation	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 ora	al	No information available			No information available	-
Chronic de	rmal	No information available			No information available	-
Chronic inh	nalation	No information available			No information available	-
CN	MR effects (c	arcinogenicity; mutagenicit	y; re	productive t	oxicity)	
Ca	arcinogenicit	y:	Bas	sed on availa	ble data, the classification o	criteria are not met.
М	utagenicity <i>ii</i>	n vitro:	Bas	sed on availa	ble data, the classification o	criteria are not met.
Ge	enotoxicity:		Bas	sed on availa	ble data, the classification o	criteria are not met.
М	utagenicity <i>ii</i>	n vivo:	Bas	sed on availa	ble data, the classification o	criteria are not met.
Ge	erm cell muta	agenicity:	Bas	sed on availa	ble data, the classification o	criteria are not met.
Re	eproductive t	oxicity:	Bas	sed on availa	ble data, the classification o	criteria are not met.
	ummary of operties:	evaluation of the CI	MR	Based on a met.	available data, the classific	ation criteria are not
11.2 In	formation or	other hazards:				
11.2.1. En	ndocrine disr	upting properties:				
co dis Ar res Re	omponents c srupting pro rticle 57(f) gulation (EU	e/mixture does not cont onsidered to have endocr operties according to REA or Commission Delegar 1) 2017/2100 or Commiss 1) 2018/605 at levels of 0.1%	ine CH ted ion			
11.2.2. Ot	ther informat	tions:				

SECTION 12. Ecologic	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note



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Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
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	-

О:	-	-1	_			-1	_		O	
к	$\sim$	$\boldsymbol{\alpha}$	$\Delta$	$\mathbf{n}$	$\mathbf{c}$	$\boldsymbol{\alpha}$	2	TΙ	$\sim$	n

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



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Trading	g name:				FUCHS	IN AC	ID VAI	N GIESON RE	AGENT	•		
Produc	ct code:	FAG	G-OT-X**		Date	of co	mpilati	on: 21 De	ec 2022	١	Version:	6
12.2	Б.	1										
12.3			potential		(log Kow	`						
Valu		water p oncenti	partition co	рН	°C		ethod	Evalu	ation		Note	
- vaiu	-	oncenti		•		-	etriou	- Evalu	ation		Note	
								_				
	<u> </u>											
	!			<u> </u>								
	Bioconce	ntratio	n factor (B	CF)								
V	'alue		Specie	S	١	Method	d	Evaluati	on		Note	
	rmation	No	No information		No info		on	No informati	on	_		
availabl	le	avail	lable		availab	le		available				
	Chronic	ecotoxi	city									
	I .	COTOXI	City	Fxr	osure							
	Value		Dose	<b>_</b> : .	ime	Sp	ecies	Method	Evalu	ation	Note	
				No		No		No	No			
Chronic	toxicity o	n fish	LC <sub>50</sub>	infor avail	mation	infor availa	mation	information available	inform availab		_	
				No	abic	No	abic	No	No			
	toxicity o ea ( <i>Daphn</i>		EC <sub>50</sub>		mation	1	mation	information	inform	ation	_	
Clustact	са (Баріііі			avail	able	availa	able	available	availab	le		
10.1												
12.4	Mobility											
		······	cted distrik available	oution in (	environm	nental (	compart	ments:				
	Surface t											
					oncentra	ation		Method			Note	
							**************************************				INOLE	
	informat	ion i	nformatio	n i		tion			-			
	available	ā	available	ave	anable		avallat	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		<u></u>										
		ion i	°C No nformatio available	n No	oncentra informa ailable		No inf availab	Method ormation ble	-		Note	



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

	Adsorption / desorption				
Transport	A/D coefficient t 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	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	-
	Results of PBT and vPvB asse The substance/mixture does		onents considered to	n have endocrine d	isrunting properties
3	according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulat		
12.6. I	Endocrine disrupting propert	ies			
(	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulat		
12.7	Other adverse effects				
	No further relevant informati	on available.			
SECTION	I 13. Disposal consideration	S			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	l:			
13.1.1.	Product/Packaging disposal Submit for disposal to the I Protection.		rized by the Ministr	y of Environmental	and Nature
13.1.1.	Submit for disposal to the I	egal person autho		y of Environmental	and Nature
	Submit for disposal to the I Protection.	egal person autho	D Law:		
	Submit for disposal to the I Protection.  Waste codes/waste designated to the I Protection.	egal person autho ations according to ontains residual ha	D Law:		
13.1.2.	Submit for disposal to the I Protection.  Waste codes/waste designated to the I Protection.  15 01 10*: Packaging that consults and the I Protection.	egal person autho ations according to ontains residual ha	D Law:		



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Trading name:	FUCHSIN ACID VAN GIESON REAGENT				
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Waste must not be disposed of into the sewage system.				
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.				
Relevant Community provision	ons:			
Disposal must be made acco	rding to official regulations.			
I 14 TRANSPORT INFORMAT	ION			
Transporting/shipment by roac	(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)			
per:	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 recommendated 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:  Ber shipping name:  It hazard class(es):  In group:  Ber shipping name:  It hazard class(es):  Ber shipping name:  Inland waterway transport (AD per:  Ber shipping name:  It hazard class(es):  Ber shipping name:  It hazard class(es):			



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

.1 Safety, health and envi	Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU regulations			
Authorization and/or re	estrictions 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);		



## **SAFETY DATA SHEET**

## BIOGNOST® According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading name:	FUCHSIN 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	SECTION 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  IMDG: International Maritime Code for Dangerous Goods  IATA: International Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent  PBT: Persistent, Bioaccumulative and Toxic  vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)			
Classific	cation	Classification procedure			
_		-			
16.5.	Relevant H statements (number	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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Trading name:	HCL REAGENT, WEIGERT-VAN GIESON				
Product code:	HCLW-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECT	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	HCL REAGE	HCL REAGENT, WEIGERT-VAN GIESON			
	Chemical name:	-				
	Catalogue number:	HCLW-OT-X	HCLW-OT-X**			
1.2	Relevant identified uses of the substa		tance or n	nixture and uses advised against		
	Uses:		For use	with special staining kits in histopathology.		
	Uses advised against:			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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997 +385 1 2404039 msds@biognost.hr			
	Telefax.:					
	e-mail of competent p	person:				
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection a	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regu	Classification according to Regulation (EC) No 1272/2008 (CLP)			
	Hazard class and catego	Hazard class and category code: Hazard statements*:			
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	HCL REAGENT, \	WEIGERT-VAN GIESON		
	Identification number:	-			
	Authorization number:	-			



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Trading name:	HCL REAGENT, WEIGERT-VAN GIESON				
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	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.
	Precautionary statements:	<ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke.</li> <li>P233 Keep container tightly closed.</li> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> </ul>
	Supplemetal hazard information (EU):	-
2.3	Other hazards  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. 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	50 – 70 %	ethanol	Flam. Liq. 2; H225		
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		

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



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

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

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



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6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in c (see Section 8).	ase of inadequate ventilation use adequate airways protective equipment				
6.2	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3	Methods and material for containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.				
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.					

SECTIO	ION 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:				



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

Industrial sector specific solutions:							
SECTION 9 Ev	nocuro contr	ols/personal prot	eaction				
	ol parameters	ois/ personar prot	ection				
Substance CAS No				Occupational exposure limit values/short term values			Biological limit values
			рр	m	mg/m³		
Ethanol		64-17-5	100	0/-	1900/-	-	
Hydrogen chlor	ride	7647-01-0	5/1	10	8/15	-	
Substance name	e: -						
EC No:	-	CAS No: -					
DNEL		·					
			Indus	strial			
Route of	Acı	ıte A	cute		Chronic		Chronic
exposure:	effect	local effect	systemic		effect local		effect systemic
Oral	-	-		-		-	
Inhalation	1900 mg (ethanol	_		-		3	880 mg/m³ (ethanol)
Dermal	-	-		-		3	343 mg/kg (ethanol)



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Cuisi a al mila	:		£1  - :1:					
Critical ph	iysicai parar	neters: solubility,	Tiammabili	•	nsume	<u> </u>		
Route of exposure	:	Acute effect local	Acu effect sy	ute		Chronic effect systemic		
Oral		-	-		-		87 mg/kg bw/day (ethanol)	
Inhalation		950 mg/m³ (ethanol)	-		-		114 mg/m³ (ethanol)	
Dermal		-	-		-		206 mg/kg (ethanol)	
PNEC								
Environmental protection target					PNEC			
Fresh wat	er				0.96 r	mg/l (ethanol)		
Freshwate	er sediments	5			3.6 m	g/kg (ethanol)		
Marine wa	ater				0.79 r	mg/l (ethanol)		
Marine se	diments				2.9 m	g/kg (ethanol)		
Food chai	n				380-7	'20 mg/kg kg (ethanol	)	
Microorga	anisms in se	wage treatment			580 mg/l (ethanol)			
Soil (agric	ultural)				0.63 mg/kg (ethanol)			
Air					no information available			
8.2	Evnocure	controls						
8.2.1.		controls	controls					
0.2.1.	Appropri	iate engineering o	Controls		Llco t	ha product in wall van	tilated rooms. Use personal	
		ce/mixture related exposure during i			Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structura exposure	al measures to pre e:	event		In accordance with Section 7.			
	Organisa exposure	tional measures t e:	to prevent		Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure: cond			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.				
8.2.2.	Personal	protection equip	ment					
8.2.2.1.	Eye and	face protection:	le	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 prot	tection						



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	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) according to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

9.1	Information on basic physical and chemical properties							
		Value	Method					
	Physical state:	liquid	No information available					
	Colour:	colourless	No information available					
	Odour/odour threshold:	biting/no information available	No information available					
	Melting point / freezing point:	No information available	No information available					
	Boiling point or initial boiling point and boiling range:	No information available	No information available					
	Flammability:	No information available	No information available					
	Lover and upper explosion limit:	No information available	No information available					
	Flash point:	21 °C	No information available					
	Auto-ignition temperature:	No information available	No information available					
	Decomposition temperature:	No information available	No information available					



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	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 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 (room temperature).					
10.3	Possibility of hazardous reactions:	No dangerous reactions known.					
10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.					
10.5	Incompatible materials:	No further relevant information available.					
10.6	Hazardous decomposition products:	No dangerous decompostion products known.					

SECTIO	ON 11. Toxi	icological inform	mation							
11.1	Information	on on hazard classes as defined in Regulation (EC) No 1272/2008								
	Acute tox	icity:								
Route exposu		Method	Species	Do	ose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure ti	me	Results		
Oral:		-	- rat LD <sub>50</sub> -		-		7.060 mg/kg (ethanol)			
Derma	rabbit			-	- >2		>20.000 mg/kg (ethanol)			
Inhalat	ion:	-	rat		LC <sub>50</sub>	4 h		20.000 mg/l		
	Specific ta	arget organ toxic	city – single expo	sure (S	STOT SE):					
	Specific effects			Target organ			Note			
Oral:		No information available		No information available -		_				
Derma	l:	l: No information available			No information available -					
Inhalat	ion:	No information	on available		No information available -					



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Trading name:	H				
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Aspiratio	on haza	ırd:	N	o information av	/ailable.		
Irritation	and co	orrosion					
		Exposur	e time	Species	Evaluation I	Method	Note
Skin corrosion/irritatio	on:	-	-		-	-	
Serious eye damage/irritation	1	-	-		-	-	
Sensitiza	ation						
Skin sensitization		No inf	ormation availa	able.			
Respiratory sensit	tization	ı: No inf	ormation availa	able.			
Symptor	ms relat	ted to the pl	nysical, chemica	al and toxicolog	ical characteristic	CS	
Oral exposure:	I	No informati	ion available.				
Dermal exposure	: 1	No informati	ion available.				
Inhalation exposu	ıre: ا	No informati	ion available.				
Eye exposure:	I	No informati	ion available.				
ı							
Repeate	d dose	toxicity (sub	acute, subchro	nic, chronic)	1	1	
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No i availa	nformation ble	No information available	No information available	No information available	No information available	-
Subacute dermal			No information available	No information available	No information available	No information available	-
Subacute No information available		No information available	No information available	No information available	No information available	-	
Subchronic oral	No i availa	nformation ble	No information available	No information available	No information available	No information available	-
Subchronic dermal	No i availa	nformation ble	No information available	No information available	No information available	No information available	-



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Trading name:	HCL REAGENT, WEIGERT-VAN GIESON				
Product code:	HCLW-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Product code:	de: HCLW-OT-X** Date of compilation: 21 Dec 2022		c 2022	Version:	4				
Subchronic inhalation	No in availab	formation le	No informatio available	No informatio available	No n infor avail	mation able	No informatio available	on -	
Chronic oral	No in availab	formation le	No information available	No informatio available		No No information information available avail		on -	
Chronic dermal	No in availab	formation le	No informatio available	No informatio available		No No information available available		on -	
Chronic inhalation	No information available  No information available  No information information available available			No informatic available	on -				
Specific	target o	rgan toxicit	· ·	d exposure (ST	OT RE):				
			Specific et			Target organ		Note	
Subacute oral		No informa	ation availab	ole	No in	No information available		-	
Subacute dermal No informa		ation available		No in	No information available		-		
Subacute inhalat	ion	No informa	ation availal	ole	No in	formatio	n available	-	
Subchronic oral		No informa	ation availak	ole	No in	formatio	n available	-	
Cubebranie darm	<b>.</b> al	Na informa	ation available		Na in	formatio	م مارمنامهام		

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

Carcinogenicity:	Based on available data, the classification criteria are not m
Mutagenicity in vitro:	Based on available data, the classification criteria are not m
Genotoxicity:	Based on available data, the classification criteria are not m
Mutagenicity in vivo:	Based on available data, the classification criteria are not m
Germ cell mutagenicity:	Based on available data, the classification criteria are not m
Reproductive toxicity:	Based on available data, the classification criteria are not m

Summary	of	evaluation	of	the	CMR	Based o	on a	available	data,	the	classification	criteria	are	not
properties:						met.								

#### 11.2. Information on other hazards:

### 11.2.1. Endocrine disrupting properties:



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Trading name:		HCL REAGENT, WEIGERT	-VAN GIESON		
Product code:	HCLW-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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

12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	8.140 mg/l (ethanol)	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	No information available	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	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
				NI_	No	
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	information available	-

### Abiotic degradation Degradation half-lives Method **Evaluation** Note No information No information Marine water No information available available available No information No information No information available Fresh water available available



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Trading name:				HCL R	EAGENT, WE	IGERT-VAN	GIESON		
Product code:	HCLV	V-OT-X*	*	Date	e of compilati	on: 21 D	ec 2022	١	/ersion:
Air	No inform	mation av	ailable	No inf	ormation ole	No information	on	_	
Soil	No inform	mation av	ailable	No inf availat	ormation ole	No information		-	
Riodea	radation								
% Degradation		Time (da	avs)		Method	Evaluation	on		Note
No information available	No		ormation		ormation	No information	on	No info	ormation
	umulative		officient (	log Kou	a)				
	l-water pa Concentra		pH	°C	Method	Fyalı	uation	Note	
		-	ρ		-	-		_	
,									
	centration								
Value	NI-	Species		Method No information		Evaluation  No information			Note
No information available	No availa		rmation	availab		available		-	
Chronic	c ecotoxici	ty	Eve	ocuro					
Value		Dose	-	osure ime	Species	Method	Evalu	ation	Note
Chronic toxicity	on fish	LC <sub>50</sub>	No infor availa	mation able	No information available	No information available	No informa availab		-
Chronic toxicity on crustacea ( <i>Daphnia</i> )  ROO informavaila		mation	No information available	No information available	No informa availab		-		



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Trading name:	ŀ	ICL REAGENT, WEIGER	T-VAN GIESON		
Product code:	HCLW-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	No	o information available							
	Surf	ace tensio	n:						
	,	Value	°C	Concentration Method					Note
		rmation lable	No information available	information No information		No information available			
	Ads	orption / o	desorption						
Transpo	ort	-	coefficient /'s constant	log Kow	E٧	aporation rate	Meth	iod	Note
Soil-wa	ter	No available	information	No information available		o information ailable	No inform available	nation	-
Water-a	air	ir No information available		No information available		o information ailable	No information available		-
Soil-air	No information available					o information No inf railable availab		nation	-
12.5			and vPvB asses						
	Base	ed on avai	lable data, the p	product does not c	ont	ain any PBT or v	PvB substa	nces.	
12.6	End	ocrino dici	rupting properti	oc					
12.0				not contain endo	crin	e disruptors			
	1 200				-	. с с.			
12.7	Oth	er adverse	effects						
	No	further rel	evant information	on available.					
SECTIO	N 13	. Disposal	consideration	S					
13.1	W	aste treati	ment methods						
12.1.1		and the A	de ain - di	ı					
13.1.1.			ckaging disposa	: egal person autho	rizo	d by the Ministr	v of Environ	amontal	and Nature
		otection.	nsposal to the l	egai person autho	1120	a by the Millistr	y OI EIIVIIOI	miental	and Nature
13.1.2.	W	aste code	s/waste designa	tions according to	) La	w:			



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Trading name:		HCL REAGENT, WEIGER	T-VAN GIESON		
Product code:	HCLW-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	15 01 10*: Packaging that contains residual hazardous substances or is contaminated with hazardous substances					
13.1.3.	Waste treatment – releva					
	No information available					
13.1.4.	Sewage disposal – releva	nt information:				
	Waste must not be dispo	sed of into the sewage system.				
13.1.5.	Other disposal recomme	ndations:				
	Do not dispose of the pra authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.				
13.1.6.	Relevant Community pro	visions:				
	Disposal must be made a	according to official regulations.				
CECTION	N 44 TRANSPORT INFORM	AATION				
SECTIO	N 14 TRANSPORT INFORM Transporting/shipment by					
UN num	-	1170				
	per shipping name:	Ethanol solution				
	rt hazard class(es):	3				
Packing						
	mentally hazardous:	-				
Special	precautions for user:	-				
	Transporting/shipment by	rail (RID)				
UN num	ber:	1170				
UN prop	er shipping name:	Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing	group:	II				
Environmentally hazardous:		-				
Special	precautions for user:	-				
	Inland waterway transport	(ADN)				
UN num	ber:	1170				
UN prop	er shipping name:	Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing	group:	II				



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Trading name:	F	ICL REAGENT, WEIGERT	-VAN GIESON		
Product code:	HCLW-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

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: -	

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



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Trading name:	HCL REAGENT, WEIGERT-VAN GIESON				
Product code:	HCLW-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

······		Population (EC) No 1007/2006 of the European Parliament and of the Council of
	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 199 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessme	nt
	None	

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



### **SAFETY DATA SHEET**

## BIOGNOST® According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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Trading name:	H				
Product code:	HCLW-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	cation	1	Classification procedure		
-			-		
16.5.	Rele	evant H statements (num	ber and full text)		
		225	Highly flammable liquid and vapor.		
	H:	314	Causes severe skin burns and eye damage.		
		335	May cause respiratory irritation.		
16.6.	Training advice:		-		
	16.7. Further information:		** "X" in the product code marks different volumes (different packagings of the product)		
16.7.			We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment
-



### **SAFETY DATA SHEET**

## BIOGNOST® According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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

SECTI	ON 1. Identification of the	e substance/mi	ixture and	of the company/undertaking	
1.1.	Product identifier				
	Trade name:	HEMATOXYLIN, WEIGERT A			
	Chemical name:	-			
	Catalogue number:	HEMA-OT-X**	MA-OT-X**		
1.2.	Relevant identified uses	of the substanc	e or mixture	e and uses advised against	
	Uses:		For use ir	special staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advised again		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:	BioGn	ost Ltd.		
	Address:	Medju	ugorska 59, i	orska 59, Zagreb	
	Telephone number:	+385	1 2409997		
	Telefax:	+385	1 2404039		
	e-mail of competent pe	person: <u>msds@biogno</u>		<u>ignost.hr</u>	
	National contact:	-			
1.4.	Emergency telephone number				
	National Protection and	National Protection and Rescue Director		112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ECTION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Reg	ulation (EC) No 12	72/2008 (CLP)				
	Hazard class and categ	ory code:		Hazard statements*:			
	Flam. Liq. 2		H225				
2.1.2.	Additional information						
	-						
*For ful	I text of Hazard- and EU Hazard-	statements: see Se	ction 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

	Hazard pictograms: Signal word:	GHS02 Danger			
	Hazard statements: H225 Highly flammable liquid and vapor.				
	Precautionary statement:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection.			
	Supplemetal hazard information (EU)	-			
2.3.	Other hazards				
	Endocrine Disrupting Properties:				
	No known endocrine disrupting properties				
	<b>Results of PBT and vPvB as</b> PBT or a vPvB.	<b>sessment</b> : According to the results of its assessment, this substance is not a			

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			

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



## **SAFETY DATA SHEET**

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

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Trade name:					
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 eff	ects, both acute and delayed
	Following inhalation:	May cause eye irritation and upper respiratory system (stinging sensation, irritation). Bronchoconstriction is possible. Possible symptoms include CNS symptoms such as headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration.
	Following skin contact:	Defatting, dry skin.
	Following eye contact:	Splatter may cause discomfort, stinging sensation, conjunctival redness, corneal surface lesions.
	Following ingestion:	It may lead to occurrence of strong sensation of stinging, 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	cal attention and special treatment needed
	No information available	

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO <sub>2</sub> Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	Water jet			
5.2.	Special hazards arising from the subst	tance 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				
	-				

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

6.4.	Reference to other sect				
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112).			
6.3.2.	Cleaning up:	Sawdust, sand, mineral adsorbents			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials			
6.3.	Methods and material f	or containment and cleaning up			
	•	rier to prevent further spillage of chemicals. Prevent environmental pollution by cals to enter the sewage system, surface water or groundwater.			
6.2.	Environmental precauti	ons:			
	Self-contained open-cir dissipation (fireproof cl	cuit compressed air breathing apparatus, a set for protecting the body from heat othing).			
6.1.2.	For emergency respond	ers:			
	Emergency procedures:	Remove or neutralize all factors that may exacerbate the condition, use all allowed means of containing the situation and use recommended means of personal protection.			
	Accident prevention me	Secure a safety zone, remove all ignition sources, and in case of an accident inform the Emergency service (112) and the manufacturer or sender. Position a prohibition sign with symbols of flame and devices that cause sparks.			
	Protective equipment:	When disposing of small quantities use protective clothing. Whe disposing of large quantities use self-contained open-circuit compressed air breathing apparatus or self-contained closed-circuit air breathing apparatus.			

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

7.2.	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 8. Exposur	e contro	ols/persona	l protec	tion				
8.1. Control para	meters	ieters						
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values		
				ppm	mg/m³			
Ethanol		64-17	'-5	1000/-	1900/-		-	
Ethylene glycol		107-2	1-1	20/40	52/104		-	
i i								
Substance: -								
EC No: -	EC No: - C		CAS No: -					
DNEL								
				Industrial				
Pouto of overaging	Acute		Acute		Chronic		Chronic	
Route of exposure:	effe	effect local		ect systemic	effect local		effect systemic	
Oral	-		-		-		-	
Inhalation 1900 (ethar		mg/m³ iol)	-		35 mg/ kg (ethylene glycol)		380 mg/m³ (ethanol)	
Dermal -			-		-		343 mg/kg (ethanol) 106 mg/kg (ethylene glycol)	
Critical physical parar	neters: s	olubility, fla	mmabilit	ty, corrosivity:				
				Consumer	,			



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

Route of expos	sure:	Acute effect local	Acut		Chronic effect local	Chronic		
Oral		effect local	effect sys	sternic	- effect local	effect systemic		
Inhalation		50 mg/m³ ethanol)	-		7 mg/kg (ethylene glycol)	114 mg/m³ (ethanol)		
Dermal	-		-		-	206 mg/kg (ethanol) 53 mg/kg (ethylene glycol)		
PNEC								
Environmental p	orotection	n target		PNEC				
Fresh water				_	l (ethanol) ethylene glycol)			
Freshwater sedi	ments			_	g (ethanol) g (ethylene glycol)			
Marine water				0.79 mg/l (ethanol) 1 mg/l (ethylene glycol)				
Marine sedimer	nts			2.9 mg/kg (ethanol) 3.7 mg/kg (ethylene glycol)				
Food chain				380-720 mg/kg (ethanol)				
Microorganisms	s in sewag	ge treatment		580 mg/l (ethanol) 199.5 mg/l (ethylene glycol)				
Soil (agricultura	l)			0.63 mg/kg (ethanol) 1.53 mg/kg (ethylene glycol)				
Air				no inforn	nation available			
8.2. Exp	oosure co	ntrols						
8.2.1. En	gineering	measures						
		nixture related osure during id		Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prevent exposure:			No information available				
	ganisatio posure:	nal measures to	prevent	Organizat influence	o reduce other worker's			
	chnical m oosure:	easures to prev	ent	See Section 7.2				
8.2.2. Pe	rsonal pro	otection equipm	nent					



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

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

	Lover 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	11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008							
Acute to	Acute toxicity:							
Route of exposure:	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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Trade name:	HEMATOXYLIN, WEIGERT A							
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Dermal:	No information available	rabbit	LD <sub>50</sub>	-		>20.000 mg/kg ( >3.500mg/kg (ethylene glycol)		thanol)
Inhalation:	No information available	rat	LC <sub>50</sub>	4 h (eth	ianol)	>8.00	000 mg/l (ethanol)	
İ								
Specific	target organ toxicit		•					
	•	cific effects	5		get orga			Note
Oral:	No information			No informa			-	
Dermal:	No information			No informa			-	
Inhalation:	No information	available		No informa	tion ava	ilable	-	
Aspirati	on hazard:		No inform	nation availab	e			
Irritatio	n and corrosion							
	Exposure	time	Species	Evaluation	Evaluation Meth		١	Note
Skin corrosion/irritation	on:	-	-	-	-		No available	information
Serious eye damage/irritation	- 1	-	-	-	-		No available	information
:								
Sensitiz								
Skin sensitization	: No information	available						
Respiratory sensitization:	No information	available						
Sympto	ms related to the pl	nysical, che	emical and to	oxicological ch	naracteri	stics		
Oral exposure:	It may lead to do loss of conscious present, dysper	usness afte	r exposure t	o higher level			•	
Dermal exposure	: Defatting, dry s	Defatting, dry skin.						
Inhalation exposure:	May cause eye Bronchoconstri headache, verti concentration.	ction is po	ssible. Possil	ble symptoms	include	CNS syn	nptoms such	as
Eye exposure:	Splatter may ca	use discor	nfort, stingir	ng sensation, o	conjunct	ival redn	ess, corneal	surface



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Repeate	To dose toxicity (su	Dacute, Subcrire	onic, chronic)	1	1	
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-
_ ,						
Specific	target organ toxic	<u> </u>	•	-		
		Specific effects		Target org		Note

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



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

Chronic	c dermal No information available c inhalation No information available		No information available	-		
Chronic			No information available	-		
	CMR effects (	carcinogenicity; mutagenicity; re	eproductive toxicity)			
	Carcinogenicity:		No information available			
	Mutagenicity in-vitro:		No information available			
	Genotoxicity:		No information available			
	Mutagenicity	in-vivo:	No information available			
	Germ cell mu	tagenicity:	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 properties man health.	S			
11.2.2.	Other informa	ations:				
	-					

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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					~	
Trade name:		HEMATOXYLIN	I, WEIGERT A			
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Product code:	HEMA-OT->	(** Dat	e of compilation	on: 19 Dec	2023 Version:	6
Chronic (long-ter toxicity	m) Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	LC <sub>50</sub> 96 hours		No information available	No information available	-
Crustacea:	EC <sub>50</sub> 48 hours		No information available	No information available	No information available	-
Algae/aquatic pla	nts IC <sub>50</sub> 72 hours		No information available	No information available	No information available	-
Microorganisms	-			-	-	-
12.2. Persister	nce and degrada	bility				
	degradation					
i	Degradation half-lives		Method		Evaluation	Note
Marine water	No information available		No information available N		No information availabl	e -
Fresh water	No information a	No information available		No information available		e -
Air	No information a	available	No information available N		No information availabl	e -
Soil	No information a	available	No information available No info		No information availabl	e -
Piodogr	adation					
Biodegra % Degradation	Time (day	·c)	Method	Fyalı	uation N	ote
70 Degradation	Time (day	3)	Wictiloa	Lvaic	-	
-	-	-		-		
	•					
12.3. Bioaccur	mulative potentia	al				
	coefficient: n-od		log Kow):			
Value C	Concentration	pH °	C Metho	od Eva	aluation [	Note
			-	-	-	
Bioconce	entration factor (	BCF)				
Bioconic		,				

Method

Evaluation

Note



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

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Page 13 of 17 Trade name: **HEMATOXYLIN, WEIGERT A** 

Produc				I I E I VI		MAIOXILIN, WEIGERI A						
TTOGGC	ct code:	HEM	IA-OT-X**	D	Date of compilation:		19 De	c 2023	Version	•	6	
No info availabl	ormation le	No information available			No information available		No infor available		No info		ion	
	Chronic e	cotoxic	ity	***************************************								
Value Dose		Expo tin	sure ne	Sţ	oecies	Met	:hod	Evaluatio	on	Note		
Chronic	toxicity on	n fish LC <sub>50</sub>		No No information info			mation able	No inform availab		No informa available	tion	-
	nronic toxicity on ustacea (Daphnia)		EC <sub>50</sub>	No inform availab		No infor availa	mation able	No inform availab		No informa available	tion	-
	Known or No inform Surface te	nation a	ted distributi available	on in e	nvironm	ental	compart	ments:				
	.,,		1		Concentration		1					
	Value		°C	Co	oncentra	tion		Method			Note	1
	No information available	on ir	°C lo nformation vailable	No	informa <sup>s</sup>		No info	ormation		-	Note	
	No information	on ir	lo nformation vailable	No	informa			ormation		-	Note	
Transpo	No information available  Adsorption	on ir a on / des A/D coe	lo nformation vailable	No ava	informa	tion	availab	ormation		ethod	Note	Note
Transpo Soil-wa	No information available  Adsorption ort H	on / des A/D coelenry's	nformation vailable sorption	No ava	informatilable og Kow	tion	availab	ormation ole tion rate	M	ethod	Note	
	Adsorption ort Honor avail	on / des A/D coe lenry's	nformation vailable sorption efficient constant	No ava	information inform	tion	availab Evapora No info available	ormation ole tion rate ormation e	Mo i availabl	ethod nformation e nformation	Note -	

#### 12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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

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 nun	nber: 1170			
UN pro	per shipping name: Ethanol solution			



Further information:

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Trade name:	HEMATOXYLIN, WEIGERT A							
Product code:	HEMA-OT-X**	Date of compilation:	19 Dec 2023	Version:	6			
Transport hazard cl	acc(6c).	3						
Packing group:								
Environmental haza	ards:	No information available						
Special precautions		-						
•	ng/shipment by rail (RI	ID)						
UN number:		1170						
UN proper shipping	g name:	Ethanol solution						
Transport hazard cl		3						
Packing group:		I						
Environmental haza	ards:	No information available						
Special precautions for user:		_	-					
	ng/shipment by inland	waterways (ADN)						
UN number:		1170						
UN proper shipping	g name:	Ethanol solution						
Transport hazard cl	lass(es):	3						
Packing group:		II						
Environmental haza	ards:	No information available						
Special precautions	for user:	-						
Transporti	ng/shipment by sea (IN	MDG)						
UN number:		1170						
UN proper shipping	g name:	Ethanol solution						
Transport hazard cl	ass(es):	3						
Packing group:		ll .						
Environmental hazards:		No information available						
Special precautions	s for user:	-						
Transport in bulk a of MARPOL 73/78 a	according to Annex II and the IBC code:	-						
Transporti	ng/shipment by air (IC.	AO-TI/IATA-DGR)						
UN number:		1170						

Transporting/shipment by	air (ICAO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II .
Environmental hazards:	No information available
Special precautions for user:	-



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Trade name:	HEMATOXYLIN, WEIGERT A				
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15.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture					
	EU regulations	EU regulations					
	Authorization and/or rest	rictions of use					
	Authorizations:	-					
	Restrictions:	-					
		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 793/9 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;					
	Other EU regulations:	Directive 2004/42/CE of the European Parliament and of the Council of 21 Apr 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 safet					
		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 1  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					
5.2.	Chemical safety assessme	ent					
	None						

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



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Trade name:		HEMATOXYLIN, WEIGERT A					
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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.			

Δ	N	IN	П	E	Y	

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION			
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

SECTI	ON 1 IDENTIFICATION (	OF THE SUB	STANCE/MI	IXTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	PERIODIC	ACID, 0.8 %	SOLUTION		
	Chemical name:	-				
	Catalogue number:	PK08-OT-	X**			
1.2.	Relevant identified use	es of the sub	stance or mi	xture and uses advised against		
	Uses:		For use w	ith special staining kits.		
	Uses advised against:		Only the i	dentified uses are advised.		
	Reason why uses advis	The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products ar Medical Devices and there is no reason to use it for other purpose.				
1.3.	Details of the supplier	of the safet	y data sheet			
	Supplier:	ŀ	BioGnost Ltd			
	Address:	ı	Medjugorska	59, Zagreb		
	Telephone number:	-	+385 1 24099	385 1 2409997		
	Fax no.:	-	+385 1 24040	5 1 2404039		
	e-mail of competent p	erson: <u>ı</u>	msds@biognost.hr			
	National contact:	-	-			
1.4.	Emergency telephone	number				
	National Protection an	ıd Rescue Di	rectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	CTION 2 HAZARDS INFORMATION				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification (REGULATION (EC) N	No. 1272/2008 (	CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-sta	tements: see Se	ection 16		
2.2.	Classification according to EC Dire	ective Nr. 1272/	2008 CLP)		
	Product identification: PERIODIC ACID, 0.8 % SOLUTION				
	Identification number:	-			
	Authorization no.: -				
	Hazard pictograms:	-			



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION			<del>-</del>
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Further information:	-		
2.3.	Other hazards			
	Endocrine Disrupting Properties	s:		
	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 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)		
-	_	-	-	-		

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



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	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		
	-		

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

SECTION 6 ACCIDENTAL RELEASE MEASURES			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
	Protective equipment: Use personal protective equipment (see Section 8).		
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.	
	Emergency procedures:	Mark the area using proper signs.	
6.1.2.	For emergency responders:		
	Wear protective equipment (see Section 8).		
6.2.	Environmental precautions:		
_	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.		
6.3.	Methods and material for containment and cleaning up		



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION			
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

SECTIO	ECTION 7 HANDLING AN STORAGE				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	i	Keep away from sources of heat and ignition. Do not smoke.		
	Measures to prevent aerosol and dust generati	on: S	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:	-	-		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2.	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	ventil	in tightly closed and upright set containers in a well ated storage rooms, and away from sources of heat, ght, and other incompatible substances.		
	Packaging materials:	Manu	ıfacturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.  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.			
	Advices for storage equipment:				
	Further information on storage conditions:	and d	ot place the unused material in the storage room lo not use empty containers for storing other icals. Do not store with incompatible materials (see on 9).		
7.3.	Specific end use(s)				



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Trading name:		PERIODIC ACID, 0.8	% SOLUTION		
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Recommendations:	-
Industrial sector specific solutions:	-

SECTION 8 EX	(POSIII	RF CON	TROLS/PER	SONAL	PR∩T	FCTION				
		meters	TROES/TER	JOHAL	ı koı	LCTION				
	Substance		CAS N	No		upational ( lues/short			Bio	ological limit values
Substance						ppm	n	ng/m³		3
-			-			-		-	No infor	mation available
Substance name:	<b>—</b>									
EC No:	_		CAS No:	_						
DNEL										
					Inc	lustrial				
Route of		A	Acute		Acut	e		Chron	ic	Chronic
exposure:		effe	ect local	effe	ct sys	temic		effect lo	ocal	effect systemic
Oral		-		-			-			-
Inhalation		-		-		-			-	
Dermal		-		-			-			-
Critical physic	al parar	neters: s	solubility, fla	mmabilit	ty, cor	rosivity:		-		
		ı			Coi	nsumer	1			1
Route of			Acute		Acut			Chron		Chronic
exposure:		ette	ect local	ette	ect sys	temic		effect local		effect systemic
Oral		-		-			-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC	l	.4:				DNIEC				
Environmenta Fresh water	protec	tion tar	get			PNEC	ti.	n availabl		
	al:	_								
Freshwater sediments						n availabl n availabl				
Marine water	onto									
Marine sedime	E1115					No information available  No information available				
Microorganisr	ns in so	wago tr	eatment					n availabl		
Soil (agricultu		waye II	catinent							
Son (agricultui	ı aı <i>j</i>					No information available				



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Trading name:		PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

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

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**



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Trading name:		PERIODIC ACID, 0.8	% SOLUTION		
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

	Value	Method
Physical state:	liquid	No information available
Colour:	colourless	No information available
Odour/odour threshold:	no odor/no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

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

#### **SECTION 11 TOXICOLOGICAL INFORMATION**



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

		1	:			:
11.1. Informatio	n on hazard classes as	defined in Reg	ulation (EC) No 12	72/2008		
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure	time	Results
Oral exposure:	No information available	_	LD <sub>50</sub>	-		-
Dermal exposure:	No information available	-	LD <sub>50</sub>	-		-
Inhalation exposure:	No information available	-	LC <sub>50</sub>	_		-
Specific ta	rget organ toxicity – si	ngle exposure (	STOT SE):			
	Specifi	c effects	Targe	t organ		Note
Oral exposure:	No information a	available	No informati	on available	-	
Dermal exposure:	No information a	available	No informati	on available	-	
Inhalation exposure	e: No information a	available	No informati	on available	-	
	y irritation: nd corrosion	No info	rmation available			
11110000110	Exposure time	Species	Evaluation	Method		Note
Skin irritation:	-	rabbit	-			
Eye irritation:	-	rabbit	-			
Sensitizatio	on					
Dermal exposure:	No information avail	able				
Inhalation exposure:	No information available	able				
Symptoms	related to the physica	l, chemical and	toxicological chara	acteristics		
Oral exposure:	sensation; higher	evels of concer g, aspiration ca	of mucosa, tingling ntration may cause uses coughing, diff tion.	nausea, abdoi	minal pa	ain and vomiting.
Dermal exposure:			ure, resorption effe ingling sensation o		ely. Lon	g-term exposure



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Trading name:		PERIODIC ACID, 0.8 % SOLUTION				
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Inhalation expos	IIro:		large amount eezing, heada			dequately vent	ilated perimete	r may cause
Eye exposure:	Direc sensa	ontact may cause slight to moderate irritation, lacrimation and burning						
Repeate	ed dose toxic	ity (sub	acute, subchro	onic, chroni	c)			
	Dose		Exposure time	Species		Method	Evaluation	Note
Subacute oral	No inforr available	mation	No information available	No information available	on	No information available	No information available	-
Subacute dermal	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Subacute inhalation			No information available	No information available	on	No information available	No information available	-
Subchronic oral No information available		mation	No information available	No information available	on	No information available	No information available	-
Subchronic dermal	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Subchronic inhalation	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Chronic oral	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Chronic dermal	No inforr available	nation	No information available	No information available	on	No information available	No information available	-
Chronic inhalation	No inforr available	mation	No information available	No information available	on	No information available	No information available	-
Specific	target organ	n tovicit	y – repeated e	vnosuro (S	TOT D	Ε).		
Specific	target organ		pecific effects	vhosnie (2	101 10	Target org	an	Note
Subacute oral	No		ation available		No information available			
Subacute derma			ntion available			formation ava		
Subacute inhalat	ion No	informa	ntion available					



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION						
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

				***************************************				
Subchro	onic oral	No information	n available		No informatio	n availabl	e	_
Subchro	onic dermal	No information	n available No information available		e	_		
Subchro	onic inhalation	No information	n available		No informatio	n availabl	e	-
Chronic	oral	No information	n available		No informatio	n availabl	e	-
Chronic	dermal	No information	n available		No informatio	n availabl	e	-
Chronic	inhalation	No information	n available		No informatio	n availabl	e	-
	CMR effects (c	carcinogenicity, m	utagenicity, r	reproduct	ive toxicity)			
	Carcinogenicit					not indica	ate carcin	ogenic effects.
	Mutagenicity i				s did not ind			
	Genotoxicity:	No informa				- 9		
	Mutagenicity i	in-vivo:	Current <i>in</i>	vivo test	s did not ind	icate muta	agenic eff	ects.
	Germ cell mut		No informa					
	Reproductive t		No toxicity on reproductive organs was determined in reproductive organs.					
11.2		valuation of the (	CMR propertion	es: -				
11.2.1.		upting properties						
	The substant contain command have endocring to Commission E 2017/2100 or	nce/mixture do ponents consid ne disrupting p REACH Article Delegated regula Commission Re 5 at levels of	es not ered to roperties 57(f) or tion (EU) egulation					
11.2.2.	Other informa	tions:						

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



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Trading name:		PERIODIC ACID, 0.8 % SOLUTION							
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version:	4				

Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	-	-
Algae/aquatic plants	IC <sub>50</sub>	8 days	No information available	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	-

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

12.3.	Bioaccumulative potential								
	Partition coefficient: n-octanol/water (log Kow):								
Valu	e Concentratio	n pH	°C	Method	Evaluation	Note			



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Tradin	g name:	•	PERIODIC					D, 0.8 % SOLUTION				
Produc	ct code:	PK	08-OT-X*	·*	Date	Pate of compilation:		on: 2	21 Dec	2022	Versi	on: 4
-	N av	o info	ormation	-		No info	ormation le		inform ailable	ation	-	
	Biocon	centration	on factor (	BCF)							1	
V	/alue		Speci	es	1	Method	k	E	valuatio	on		Note
No info	ormation le	No ava	in <sup>.</sup> ilable	formatio	n No info availab		on				No inforr available	mation
	Chronic	c ecotox	icitv									
	Value		Dos	se E	xposure time	Spo	ecies	Met	hod	d Evaluation		Note
Chronic	c toxicity	on fish	LC <sub>50</sub>	1	ormation ailable	No infori availa	mation able	No inform availal		No information available		-
	c toxicity ea ( <i>Daph</i>		EC <sub>50</sub>	1	ormation ailable	No infori availa	mation able	No inform availal		No info	ormation ble	-
12.4.	Mobilit	ty in soil										
	1		icted distr	ibution ir	n environm	nental d	compart	ments:				
			available									
	Surface	e tensior	1:									
	Val	ue	°C		Concentra	ation		Meth	od		N	ote
	No informa availab	ation	No informatio available	าก	lo informa vailable	ition		No information available		-		
	Adsorn	otion / de	esorption									
Transpo	-	A/D c	oefficient s constant		log Kow	Ev	/aporati	on rate		Method		Note
Soil-wa	ater N	0 vailable	informat		information		o inform	ation	No ir	nformati	on -	



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION								
Product code:	PK08-OT-X** Date of compilation: 21 Dec 2022 Version: 4								

	t code.	0 01 X	Date 0.	compliation. 2	T Dec 2022	version. 4
Water-a	ir No available	information	No information available	No information available	No information available	-
Soil-air	No available	information	No information available	No information available	No information available	-
12.5.	Results of PBT ar					
	according to REA	ACH Article 5	•	n Delegated regula	to have endocrine o	disrupting properties 0 or Commission
12.6.	Endocrine disrup	oting properti	es			
	according to REA	ACH Article 5	•	n Delegated regula	to have endocrine o tion (EU) 2017/2100	disrupting properties O or Commission
12.7.	Other adverse ef	ffects				
	No information a	available				
SECTIO	N 13 DISPOSAL (	CONSIDERAT	TIONS			
13.1.	Waste treatme	ent methods				
13.1.1.	Product/Packa	ging disposa	:			
	Submit for disp Protection.	posal to the l	egal person autho	rized by the Minist	ry of Environmenta	l and Nature
13.1.2.	Waste codes/v	waste designa	tions according to	Law:		
	No information					
13.1.3.	Waste treatme	ent – relevant	information:			
	No information	n available				
13.1.4.	Sewage dispos	sal – relevant	information:			
			d of into the sewa	ge system.		
12.15	Oth I'	l	- <b>.</b>			
13.1.5.	Other disposal	recommend	ations:			



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Trading name:	PERIODIC ACID, 0.8 % SOLUTION						
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors cry in charge. Do not dispose of the packaging into the sewage system. Submit electors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community pro	ovisions:
	-	
SECTIO	N 14 TRANSPORT INFORI	MATION
	Transporting/shipment by	road (ADR)
UN num		Not subject to transport regulations.
UN pro	per shipping name:	
	ort hazard class(es):	-
Packing		-
······	mentally hazardous:	-
	precautions for user:	-
•	Transporting/shipment by	rail (RID)
UN nun		Not subject to transport regulations.
UN pro	per shipping name:	
Transpo	ort hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Inland waterway transport	(ADN)
UN num	nber:	Not subject to transport regulations.
UN proj	per shipping name:	-
Transpo	ort hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by	sea (IMDG)
UN num	nber:	Not subject to transport regulations.
UN proj	per shipping name:	-
Transpo	ort hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	



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Trading name:				
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UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-

5.1. Safety, health and enviro	Safety, health and environmental regulations/legislation specific for the substance or mixture						
EU regulations							
Authorization and/or res	Authorization and/or restrictions 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:	PERIODIC ACID, 0.8 % SOLUTION				
Product code:	PK08-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

	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 us 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)		
Classifi	ication	Classification procedure		
-	-			
16.5.	Relevant H statements (number	er and full text)		
	H: -			
16.6.	Training advice:			
16.7.	Further information: t	* "X" in the product code marks different volumes (different packagings of the product)  Ve 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.		

Λ	N	N	П	ᆮ	Y	
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**Exposure scenario resulting to Chemical safety assessment** 

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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**	RFR-OT-X**				
1.2	Relevant identified use	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:	device, ı	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 sheet						
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997				
	Telefax.:		+385 1 2404039				
	e-mail of competent person:		msds@biognost.hr				
	National contact:		-				
1.4	Emergency telephone	Emergency telephone number					
	National Protection ar	nd Rescue Dire	ctorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	ON 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regulation (EC) No.	o 1272/2008 (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 fu	ıll text of Hazard- and EU Hazard-statements: se	ee SECTION 16				
2.2	Label elements					



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

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

#### **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		

SECT	ION 4. First aid measures			
4.1	Description of first aid measures	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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Trading name:		HSIN REAGENT			
Product code:	RFR-OT-X**	Revision date:	21 Dec 2022	Version:	4

	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 m	nedical attention and special treatment needed
	-	

SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol resistant foam			
	Unsuitable extinguishing media:	Water 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 water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.			

SECTIO	SECTION 6. Accidental release measures				
6.1	Personal precautions, protective	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	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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Trading name:		RESORCINE FUCH	ISIN REAGENT		
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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 fo disposal to the legal persons authorized by the Ministry of Environmenta 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	FION 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:	s to protect the environment:				
	Other measures:		Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. The	oroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incomp	patibilities				
	Technical measures and storage conditions: well ventilated		htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.			
	Packaging materials:	Manufactu	rer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away tightly clos	from food and drink. Keep the containers sed.			



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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. Ex	posure co	ntrols/perso	onal pr	otection			
	l paramet	•					
Substa	ince	CA	AS No	valu	ies/short	exposure limit term values	Biological limit values
				•	pm	mg/m³	
Ethanol		64	4-17-5 10		00/-	1900/-	<u>-</u>
Hydrogen chlo	ride	764	47-01-0 5/		/10	8/15	-
Substance nam	e: -						
EC No:	-	CAS No	):	_			
DNEL							
				Ind	ustrial		
Route of		Acute	e Acute		Chronic		Chronic
exposure:	ef	fect local	effe	ct systemic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	1900 (etha	mg/m³ nol)	-		-		380 mg/m³ (ethanol)
Dermal	-		-		-		343 mg/kg (ethanol)
Critical physical	paramete	rs: solubility,	flamm	ability, corr	osivity:	-	
				Con	sumer		
Route of		Acute		Acute		Chronic	Chronic
exposure:	e	ffect local	effe	ct systemic		effect local	effect systemic
Oral	-		-		-		87 mg/kg bw/day (ethanol)
Inhalation		0 mg/m³ hanol)	-		-		114 mg/m³ (ethanol)
Dermal	_		-		-		206 mg/kg (ethanol)



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PNEC					
Environm	ental protection target		PNEC		
Fresh wat	er		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 (agric	cultural)		0.63 mg/kg (ethanol)		
Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measure prevent exposure during identifie		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.  Organization of work in order to reduce other worker's influence during work process.		
	Organisational measures to preve exposure:	ent			
	Technical measures to prevent ex	posure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	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:		protective gloves have to satisfy the specification of ulation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min		
	Other skin protection:	footwe entire imperr	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		



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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) according to EN 14387) used when concentration levels exceed GVI.						
8.2.2.4.	Thermal hazards:	No information available						
8.2.3.	Environmental exposure controls							
	Substance/mixture related measures to prevent exposure:	See Section 6						
	Structural measures to prevent exposure:	Use modern equipment.						
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.						
	Technical measures to prevent exposure:	See Section 6						

Informat	ion on basic physical and	chemical properties	
		Value	Method
Physical	state:	liquid	No information available
Colour:		dark violet	No information available
Odour/o	dour threshold:	alchohol like/no information available	No information available
Melting <sub>l</sub>	point / freezing point:	No information available	No information available
	oint or initial boiling d boiling range:	No information available	No information available
Flammak	oility:	No information available	No information available
Lover an	d upper explosion limit:	No information available	No information available
Flash poi	nt:	17 °C	No information available
Auto-ign	ition temperature:	No information available	No information available
Decomp	osition temperature:	No information available	No information available
pH:		No information available	No information available
Kinemati	c viscosity:	No information available	No information available
Solubility	<i>r</i> :	No information available	No information available
	coefficient n- water (log value):	No information available	No information available
Vapour p	oressure:	No information available	No information available
Density a	ınd/or relative density:	No information available	No information available
Relative	vapour density:	No information available	No information available
Particle o	haracteristics:	No information available	No information available



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9.2	Other information
	-

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

	oxicological inforration on hazard cla		d in Population (F	C) No 127	2/2008	
	oxicity:	sses as defined	a iii Kegulatioii (L	-C) NO 121	2/2000	
Route of exposure:	Method	Species	Dose LD <sub>50</sub> ,		Exposure tin	ne Results
Oral:	-	rat	LD <sub>5</sub>	0	-	7.060 mg/kg (ethanol) 5.000 mg/kg (Basic Red 9)
Dermal:	-	rabbit	_		_	>20.000 mg/kg (ethanol)
Inhalation:	-	rat	LC <sub>5</sub> (	0	4 h	>8.000 mg/l (ethanol)
Specifi	c target organ toxic	ity – single ex	posure (STOT SE)	:		
	Spe	ecific effects		Target c	rgan	Note
Oral:	No information	n available	No information available			-
Dermal:	No information	n available	No information available		-	
Inhalation:	No information	n available	No inf	ormation a	available	_
Aspirat	ion hazard:		No information a	available.		
Irritatio	on and corrosion					
	Evposi	ure time	Species	Evaluation	on Method	Note



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Skin corrosion/irritation	on:	-	-		-				
Serious eye damage/irritation	า	-	-		-				
Sensitiza	ation								
Skin sensitization	n:	No inf	ormation avail	able.					
Respiratory sensi	tizatio	on: No inf	ormation avail	able.					
Sympton	mc ro	lated to the ph	veical chamic	al and toxicolog	rical characteris	rtice			
Oral exposure:	IIIS IE	No informati	•	ai and toxicolog	gical Characteris	SUCS			
Dermal exposure	ı•	No informati							
Inhalation exposu		No informati							
Eye exposure:		No informati							
, ,									
Repeate	d dos	se toxicity (sub	acute, subchro	onic, chronic)					
		Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral		information lable	No information available	No information available	No information available	No information available	ı -		
Subacute dermal		information lable	No information available	No information available	No information available	No informatior available	۱ -		
Subacute inhalation		information lable	No information available	No information available	No information available	No information available	٦ -		
Subchronic oral		information lable	No information available	No information available	No information available	No information available	۱ -		
Subchronic dermal		information lable	No information available	No information available	No information available	No information available	ı -		
Subchronic inhalation		information lable	No information available	No information available	No information available	No information available	۱ -		
Chronic oral		information lable	No information available	No information available	No information available	No information available	۱ -		



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Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	on -	
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	on -	
				(27.07				
Specific	target	organ toxicit	· · · · · · · · · · · · · · · · · · ·	exposure (STOT				
			Specific effec	cts	Target o		Note	
Subacute oral			tion available		No information		-	
Subacute derma			tion available		No information		-	
Subacute inhala	tion		tion available		No information		-	
Subchronic oral		No informa	tion available		No information	n available	-	
Subchronic dern	nal	No informa	tion available		No information	n available	-	
Subchronic inha	lation	No informa	tion available		No information	-		
Chronic oral		No informa	tion available		No information	n available	-	
Chronic dermal		No informa	tion available		No informatio	n available	-	
Chronic inhalation	on	No informa	tion available		No information	n available	-	
CMR ef	fects (c	arcinogenicit	y; mutagenicit	y; reproductive	toxicity)			
Carcino	genicit	y:	be	probably carci		n its IARC, C	nas been reported to PSHA, ACGIH, NTP, or	
Mutage	enicity i	n vitro:	Ва	Based on available data, the classification criteria are not met.				
Genoto	······································		Ва	Based on available data, the classification criteria are not met.				
Mutage	enicity i	n vivo:	Ва	Based on available data, the classification criteria are not met.				
Germ c	ell muta	agenicity:	М	Mouse – Oral: DNA damage				
Reprod	Reproductive toxicity:			sed on availabl	e data, the classi	ication crite	ria are not met.	
Summa propert	-	evaluation	of the CN	MR Based on met.	available data, 1	the classifica	ation criteria are no	
		n other hazard						
11.2 Informa								



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	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 informations:	
	-	

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	ays algae 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	-
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		ility				
Abiotic degra	dation			1		
De	gradation ha	alf-lives	Method	Evaluatio	n	Note



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											9		
Tradin	g name:					RE	SORCINE FU	CHS	IN REAG	ENT			
Produc	ct code:		RFR-C	OT-X**		Revi	ision date:	2	21 Dec 20	22	,	Version:	4
Marine	water	No	o inform	nation avai	lable	No inf availat	ormation ole	No information available		n	-		
Fresh w	/ater	No	o inform	nation avai	lable	No inf availat	ormation ole	No i avail	nformatio able	n	-		
Air		No	o inform	nation avai	lable	No inf	ormation ole	No i avail	nformatio able	n	-		
Soil		No	inform	nation avai	lable	No inf availat	ormation ole	No i avail	nformatio able	n	_		
	Biodeg	rada	ation										
% De	egradatio	n		Time (day	s)	N	Method		Evaluatio	n		Note	
No info	rmation		No avail		mation	No inf	ormation		nformatio able	n	No inf	ormation	
avanabi			avan	abic		avanak	Jic	avan	abic		avanak		
							<u> </u>						
12.3	Bioaccı	umu	lative p	otential									
				tition coe	ficient (	log Kow	/)						
Valu	e	Cor	centrat	ion	рН	°C	Method	Evaluation		ation		Note	
-	-			_		_	-		-		_		
	Biocon	cen	tration	factor (BCI	=)								
V	alue/			Species		l	Method		Evaluati	on		Note	
No info availabl	rmation le		No availab		mation	No info	ormation ble		informati ailable	on	-		
	Chroni	c ec	otoxicit	V									
	Value			Dose		osure ime	Species	N	Method	Evalu	uation	Note	!
Chronic	No No		mation	No information	No inf	ormation	No inform	ation	-				

available

available

available

available



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	Chronic toxicity on		EC <sub>50</sub>	No information	No inforr	nation	No informa	ation	No infor	mation	_
crustacea ( <i>Daphnia</i> )		2030	available	availa		availabl	1	avail			
12.4		oility in so									
		•	dicted distributi	on in environm	iental c	ompart	ments:				
			n available								
		ace tensio	1		4		N 4 - 4 l				NI-4-
		Value	°C	Concentra	ition		Metho	a			Note
		rmation lable	No information available	No informa available	tion	No inf availab	ormation ple	1		-	
	Ads	orption / o	desorption								
Transp	ort A/D coefficient Henry's constant		log Kow	log Kow Evaporation		on rate	N	Иetho	d	Note	
Soil-wa	ater	No available	information	No information			nation	No information available		ition	-
Water-	air	No available	information	No information				No information available		ition	-
Soil-air	•	No available	information	No information		No information No information available			ition	-	
12.5	Resi	ults of PBT	and vPvB asses	ssment							
	acco	ording to F	e/mixture does i REACH Article 5 J) 2018/605 at I	7(f) or Commis	sion De	elegated					srupting propertie or Commission
12.6.	End	ocrine disi	rupting propert	ies							
	The acco	substance ording to F		not contain cor 7(f) or Commis	sion De	elegated					srupting propertie or Commission
12.7	Oth	er adverse	effects								
		C 11 1	evant information								



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SECTIO	N 13. Disposal considerations	s		
13.1	Waste treatment methods			
13.1.1.	Product/Packaging disposal			
	Submit for disposal to the le Protection.	egal person authorized by the Ministry of Environmental and Nature		
13.1.2.	Waste codes/waste designa	tions according to Law:		
	Packaging that contains res	idual 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:		
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 collector authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Sub the packaging to the collectors authorized by the ministry in charge.			
13.1.6.	Relevant Community provis	ions:		
	Disposal must be made acco	ording to official regulations.		
SECTIO	N 14 TRANSPORT INFORMA	TION		
	Transporting/shipment by roa			
UN num		1170		
UN prop	per shipping name:	Ethanol solution		
	rt hazard class(es):	3		
Packing	group:	ıı		
Environr	nentally hazardous:	-		
Special <sub>I</sub>	orecautions for user:	-		
	Transporting/shipment by rail	(RID)		
UN num	ber:	1170		
UN prop	per shipping name:	Ethanol solution		
Transpo	rt hazard class(es):	3		
Packing	group:	ıı		



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



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		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;
	Other EU regulations:	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 199 guideline)	9/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessmen	nt .
	None	

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



#### **SAFETY DATA SHEET**

### BIOGNOST® According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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

ANNEX: Exposure scenario resulting to chemical safety assessment
-