

A.F.O.G. KIT

The kit contains:

A.F.O.G. reagent
Bouin's solution
Ferri reagent, Weigert B
HCL reagent, A.F.O.G
Hematoxylin, Weigert A
Phosphomolybdic acid, 1% solution



SAFETY DATA SHEET

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

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Trading name:	A.F.O.G. REAGENT				
Product code:	AFOG-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

SECTI	ON 1: Identification of	the subst	ance/mixture a	nd of the company/undertaking			
1.1.	1. Product identifier						
	Trading name:	A.F.O.G	i. REAGENT				
	Chemical name:	-	-				
	Catalogue number:	AFOG-	AFOG-OT-X**				
1.2.	Relevant identified use	levant identified uses of the substance or mixture and uses advised against					
	Uses:		For use with A.	F.O.G. (Acid Fuchsin Orange G) kit.			
	Uses advised against:		Only the identi	fied uses are advised.			
	Reason why uses advi	sed	The product is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and N Devices and there is no reason to use it for other purposes				
1.3.	Details of the supplier	of the sa	fety data sheet				
	Supplier:		BioGnost Ltd.				
ı			Medjugorska 59, Zagreb				
	Address:		Medjugorska	59, Zagreb			
	Address: Telephone number:		Medjugorska +385 1 24099				
				97			
	Telephone number:	person:	+385 1 24099	97 39			
	Telephone number: Fax no.:	person:	+385 1 24099 +385 1 24040	97 39			
1.4.	Telephone number: Fax no.: e-mail of competent p		+385 1 24040 +385 1 24040 msds@biogno	97 39			
1.4.	Telephone number: Fax no.: e-mail of competent p National contact:	number	+385 1 24099 +385 1 24040 msds@biogno	97 39			
1.4.	Telephone number: Fax no.: e-mail of competent p National contact: Emergency telephone	number	+385 1 24099 +385 1 24040 msds@biogno	97 39 ost.hr			

SECTIO	ION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and category	v code:	Hazard statements*:				
	Not identified as hazardous substance						
2.1.2.	Additional information						
	-						
*For fu	ll text of Hazard- and EU Hazard-sta	atements: see S	ection 16				
2.2.	Label elements						
	Product identification:	A.F.O.G. REAC	GENT				
	Identification number: -						
	Authorization no.:						
	Hazard pictograms:	-					



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Further information:	-		
2.3.	Other hazards			
	Endocrine Disrupting Propertie	es:		
	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 no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
_	-	_	Contains no hazardous substances	-		

SECTIO	ION 4. First aid measures					
4.1.	Description of first aid measures					
	General notes:		-			
	Following inhalation:		No information available			
	Following skin contact:		No information available			
	Following eye contact:		No information available			
	Following ingestion:		No information available			
	Self-protection of the first a	ider:	Treat symptomatically.			
4.2.	Most important symptoms a	and eff	ects, both acute and delayed			
	Following inhalation:	No i	nformation available			
	Following skin contact:	No i	nformation available			
	Following eye contact:	No i	nformation available			
	Following ingestion:	No information available				
4.3.	Indication of any immediate	medic	cal attention and special treatment needed			
	-					

SECTION 5 Firefighting measures					
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			



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	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	ON 6. Accidental release meas	ures			
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 Nati Protection and Rescue Directorate (NPRD) on 112.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.			
6.3.2.	Cleaning up:	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				
	See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment. See Section 13 for information about containment.				



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

SECTIO	ON 8. Exposure contro	ols/personal prote	ction		
8.1.	Control parameters				
	Substance	CAS No		exposure limit t term values	Biological limit values
			ppm	mg/m³	
-		-	-	-	No information available
Substa name:	nce -				



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								rage 5 or 10
Trading na	ame:					A.F.O.G	. REAGENT	
Product co	ode:	AFOG-C)T-X**		Date o	f compila	tion: 21 Dec 2022	Version: 5
		3		•			,	,
EC No:	-		CAS No:	-				
DNEL								
					Inc	lustrial	,	
Route of		A	Acute		Acut	е	Chronic	Chronic
exposure:		effe	ect local	е	ffect sys	temic	effect local	effect systemic
Oral		-		-			-	-
Inhalation		-		-			-	-
Dermal		-		-			-	-
Critical phy	sical par	ameters: s	solubility, fla	ımmab	ility, cor	rosivity:	-	
		1		1	Coı	nsumer		1
Route of			Acute		Acute		Chronic	Chronic
exposure:		effe	ect local	е	ffect sys	temic	effect local	effect systemic
Oral		-		-			-	-
Inhalation		-		-			-	-
Dermal		-		-			-	-
PNEC								
Environme	•	ection tar	get			PNEC		
Fresh water							mation available	
Freshwater		nts					mation available	
Marine wat							mation available	
Marine sed							mation available	
Food chain							mation available	
Microorgar		sewage tr	eatment				mation available	
Soil (agricu	Itural)						mation available	
Air						No infori	mation available	
0.0	Г		1-					
8.2. 8.2.1.		ure contro		atrole				
0.2.1.			ineering cou ire related	itrois				
	measu		vent exposu	ire		•	n well ventilated rooms. I ot eat, drink or smoke in	•
	Structı exposı		ires to preve	ent	No info	rmation av	/ailable	
		isational m	neasures to e:		_	ation of w	ork in order to reduce of	ther worker's influence
	Techni		res to preve	ent	Secure proper workspace ventilation in order to keep			



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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					
	Hand protection:		ctive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm			
			Break through time: >480 min			
	Other skin protection:	Wear antistatic clothing made of natural fibers (sometimes skin protection: skin protection:				
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	o information available			
8.2.3.	Environmental exposure controls					
	Substance/mixture relate measures to prevent expe		See Section 6			
	Structural measures to prexposure:	revent	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			

SECTI	ON 9. Physical and chemical propertie	s	
9.1.	Information on basic physical and che	emical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	violet red	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



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Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
рН:	1.0 – 1.1	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
2. Other information		
-		

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

11.1.	Information on toxicological effects							
	Acute toxic	city:						
Route o exposur		Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results		
Oral exp	oosure:	No information available	-	LD ₅₀	-	-		
Dermal	exposure:	No information available	-	LD ₅₀	-	-		
Inhalatio exposur		No information available	-	LC ₅₀	-	-		



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Product code.	AFOG-OT-X***		ate of compilar		8C 2U2Z VE	ersion. 5
	Spe	cific effects		Target organ		Note
Oral exposure:	No informa	ation available	e No infor	mation availal	ole -	
Dermal exposur	e: No informa	ation available	e No infor	mation availab	ole -	
Inhalation expos	sure: No informa	ation available	e No infor	mation availab	ole -	
Respira	tory irritation:	ſ	No information a	vailable		
Irritatio	n and corrosion					
į	Exposure time	e Speci	ies Eva	aluation	Metho d	Note
Skin irritation:	-	-				
Eye irritation:	-	-	-			
Sensitiz	zation					
Dermal exposur	e: No information	available				
Inhalation exposure:	No information	available				
Sympto	oms related to the ph	nysical, chemi	cal and toxicolog	gical character	istics	
Oral exposure:	No information					
Dermal exposur	e: No information	available				
Inhalation exposure:	No information	available				
Eye exposure:	No information	available				
<u> </u>	3					
Repeat	ed dose toxicity (sub	acute, subchr	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No informatio n available	No information available	-
Subacute dermal	No information available	No information available	No information available	No informatio n available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No informatio n available	No information available	-



Reproductive toxicity:

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Troduct code.	AI.	00-01-7	D.	ite Oi	Compilat	IOII. ZIDE	C 2022	V CI.	31011.
Subchronic oral	No i availa	information able	No information available	ormation information		No informatio n available	No informat available	ion	-
Subchronic dermal	No i availa	information able	No information available		rmation lable	No informatio n available	No informat available	ion	-
Subchronic inhalation	No i availa	information able	No information available		rmation lable	No informatio n available	No informat available	ion	-
Chronic oral	No i availa	information able	No information available		rmation lable	No informatio n available	No informat available	ion	-
Chronic dermal	No i	information able	No information available		rmation lable	No informatio n available	No informat available	ion	-
Chronic inhalation	No i availa	information able	No information available		rmation lable	No informatio n available	No informat available	ion	_
	i					i	i		
Specific	target	organ toxicit	y – repeated e	exposu	ıre (STOT	RE):			
		Spe	cific effects	effects Target organ			ın		Note
Subacute oral		No informa	ition available	No information available			ole	-	
Subacute derma		No informa	ition available			ole	-		
Subacute inhalat	ion	No informa	ition available	n available No inforr		ormation available		-	
Subchronic oral		No informa	tion available	n available No informa		mation available		-	
Subchronic derm	nal	No informa	ition available		No infor	mation availab	ole	-	
Subchronic inhal	ation		tion available			information available		-	
Chronic oral			tion available			mation availab		-	
Chronic dermal			tion available	n available No int		information available		-	
Chronic inhalation	n	No informa	tion available		No infor	mation availab	ole	-	
			y, mutagenicit			•			
Carcino					n available				
Mutage		n-vitro:			n available				
Genoto	······	•			n available				
Mutage				No information available No information available					
Germ cell mutagenicity:		No inforr	natioi	n available					

No information available



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	Commence of an allowations of the CAAD annual street
	Summary of evaluation of the CMR properties: -
11.2	Information on other hazards:
11.2.1.	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.
11.2.2.	Other informations:
	-

SECTION 12. Ecological information

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



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Other o	organisr	ms	-	_	-	-	,	_	-	1	
12.2.	Persis	tence	e and degrad	lability							
			gradation								
		D	egradation l	alf-live	S	Method		Evaluation		Note	
Marine water		No	information	availabl	e No inf	formation available	e No inforn	nation availa	able	-	
Fresh w	ater	No	information	availabl	e No inf	formation available	e No inforn	nation availa	able	_	
Air		No	information	availabl	e No inf	formation available	e No inforn	nation availa	able	-	
Soil		No	information	availabl	e No inf	formation available	No inforn	nation availa	able	-	
<u> </u>											
	Biode	grad	ation		1			:			
% Deg	radatio	n	Time (d	ays)		Method	Evaluatio	on	Note	е	
No info availabl			No info available	ormatio	n No info available		No informati available			lo information vailable	
	12.3. Bioaccumulative potential										
12.3.	Bioaco	cumu	ılative poten	tial							
12.3.			ulative poten		/water (log	Kow):					
12.3. Value	Partiti	ion c	•			Kow):	Evalu	ation	No	te	
	Partiti e	ion c	oefficient: n- ncentration informatior	octanol pF			Evalu No inforn available		No -	te	
	Partiti e	ion co Cor No	oefficient: n- ncentration informatior	octanol pF		Method No information	No inforn			te	
	Partiti e	ion co Cor No	oefficient: n- ncentration informatior	octanol pF		Method No information	No inforn			te	
	Partiti e	ion co Cor No	oefficient: n- ncentration informatior	octanol pF		Method No information	No inforn			te	
	Partiti e N	Cor Vo availa	oefficient: n- ncentration informatior	pH		Method No information	No inforn			te	
Valu	Partiti e N	Cor Vo availa	oefficient: n- ncentration information ble	pH - - (BCF)	- °C	Method No information	No inforn	nation			
Valu	Partiti e N a Bioco 'alue	Cor No availa	oefficient: n- ncentration information ble tration facto	pH - - (BCF)	- °C	Method No information available Method mation	No inform available	on N	-	e	
Value	Partiti e N a Bioco 'alue	Cor No availa	oefficient: n- ncentration information ble tration facto Speci	pl- - (BCF)	°C -	Method No information available Method mation	No informati	on N	- Not Io informati	e	
Value - V	Partiti e	ncen	oefficient: n- ncentration information ble tration facto Speci	pl- - (BCF)	°C -	Method No information available Method mation	No informati	on N	- Not Io informati	e	
Value - V	Partiti e	ncen	tration facto Specienting No information stration facto speciential information facto	pl- - (BCF)	°C -	Method No information available Method mation	No informati	on N	- Not Io informati vailable	e	



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Produc	ct co	de: Al	OG-OT-X**	Date o	of compilati	on: 21 Dec	2022	Version: 5
					nformation available	information available	available	
Chronic		city on aphnia)	EC ₅₀	information i	No nformation available	No information available	No inform available	ation -
2.4.	Мо	bility in soi	1					
				on in environme	ntal compar	tments:		
	No	informatio	n available					
	Sur	face tensio	n:					
		Value	°C	Concentration	on	Method		Note
		ormation ilable	No information available	No information	on No in	formation avail	lable -	
Γranspo	<u> </u>		desorption coefficient 's constant	log Kow	Evapor	ration rate	Method	Note
Soil-wa	ter	No available	information	No information available	No inforn available	nation	No information available	-
Vater-a	air	No available	information	No information available	No inforn available	nation	No information available	-
Soil-air	oil-air No information available		information	No information available	No inforn available	nation	No information available	-
12.5.			and vPvB asses					
	acc	ording to F	REACH Article 5	•	on Delegate			disrupting propertion O or Commission
2.6.	End	locrine disr	rupting propert	ies				
	acc	ording to F	REACH Article 5		on Delegate			disrupting propertion O or Commission



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12.7.	Other adverse effects		
	No information available		
SECTIO	N 13. Disposal considerations	S	
13.1.	Waste treatment methods		
13.1.1.	Product/Packaging disposal		
	Submit for disposal to the le	egal person authorized by the Ministry of Environmental and Nature	
13.1.2.	Waste codes/waste designa	tions according to Law:	
	No information available		
	ī		
13.1.3.	Waste treatment – relevant	information:	
	No information available		
	!		
13.1.4.	Sewage disposal – relevant	information:	
		d of into the sewage system.	
	1	2 2 3 1 3 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3	
13.1.5.	Other disposal recommenda	ations:	
	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 provis	ions:	
	-		
	i		
SECTIO	N 14. Transport information		
	Transporting/shipment by roa	nd (ADR)	
UN num		Not subject to transport regulations.	
	per shipping name:	-	
	ort hazard class(es):	-	
Packing		-	
·····	mentally hazardous:		
	precautions for user:	-	



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Transporting/shipment by rail (RI	ID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	1
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (ICA	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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				



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Trading name:	A.F.O.G. REAGENT				
Product code:	AFOG-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2.	Chemical safety assessme	ent
	None	

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



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Trading name:	A.F.O.G. REAGENT			
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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 (numb	er and full text)	
	H: -	-	
16.6.	Training advice:	-	
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

			_	_	
	ы	N	_	v	
Δ	N	N	_	×	-

Exposure scenario resulting to Chemical safety assessment

-



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Trading name:		BOUIN'S	SOLUTION	_	
Product code:	BOU-OT-X**	Revision date:	22 Dec 2022	Version:	7

1.1.	Product identifier	he substance	e/mixture a	nd of the company/undertaking			
1.1.		DOLUNIC CO	DILITION				
	Trading name:	ROUIN,2 20	BOUIN'S SOLUTION				
	Chemical name:	-					
	Catalogue number:	BOU-OT-X	BOU-OT-X**				
1.2.	Relevant identified use	es of the subs	tance or mix	cture and uses advised against			
	Uses:	Uses:		olution of picric acid, formaldehyde and acetic acid for cion.			
	Uses advised against:		Only the ic	dentified uses are advised.			
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.				
1.3.	Details of the supplier of the safety data sheet						
	Supplier: E		BioGnost Ltd.				
	Address:		Medjugorska 59, Zagreb				
	Telephone number:	+	+385 1 2409997				
	Fax no.:	+	+385 1 2404039				
	e-mail of competent person: m		msds@biognost.hr				
	National contact: -		-				
1.4.	Emergency telephone	number					
	National Protection an	d Rescue Dire	ectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTIO	ON 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC) No 127	72/2008 (CLP)			
	Hazard class and category code:	Hazard statements*:			
	Acute Tox. 4	H302			
	Acute Tox. 4	H312			
	Skin Irr. 2	H315			
	Skin. Sens. 1	H317			
	Eye Irr. 2	H319			
	Acute Tox. 4	H332			
	STOT SE 3	H335			
	Muta. 2	H341			
	Carc. 1B	H350			



SAFETY DATA SHEET

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

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Trading name:	BOUIN'S SOLUTION				
Product code:	BOU-OT-X**	Revision date:	22 Dec 2022	Version:	7

2.1.2.	Additional information						
	Endocrine Disrupting Prop	erties:					
	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.						
4F (
	ıll text of Hazard- and EU Haza	rd-statements: see Section 16					
2.2.	Label elements						
	Product identification:	BOUIN'S SOLUTION					
	Identification number:	-					
	Authorization no.:	-					
	Hazard pictograms:	GHS08 GHS07					
	Signal word:	Danger					
	Hazard statements:	 H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. 					
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P301+P330+P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/attention.					
	Further information:	-					
2.3.	Other hazards						

SECTION 3. Composition/information on ingredients



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CAS/ EC/ Index no.	REACH Registration No	Mass %	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)
50-00-0/ 200-001-8/ 605-001-00-5	01-2119488953-20- XXXX	7 -10 %	formaldehyde, 37%	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin. Corr. 1B; H314 Skin. Sens. 1; H317 Acute Tox. 3; H331 Muta. 2; H341 Carc. 1B; H350
64-19-7/ 200-580-7/ 607-002-00-6	-	4- 5 %	acetic acid, glacial	Flam. Liq. 3; H226 Skin Corr. 1A; H314
88-89-1/ 201-865-9/ 609-009-00-X	-	< 1 %	picric acid	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331

SECTI	ON 4. First aid measures		
4.1.	Description of first aid measures		
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.	
	Following inhalation:	Remove person to fresh air. If breathing stops, immediately apply artificial respiration. If breathing difficulties occur, use emergency breathing apparatus. If the symptoms persist, immediately consult a physician.	
	Following skin contact:	Take off immediately all contaminated clothing. Immediately wash with plenty of water and soap for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.	
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 10 minutes. If the symptoms remain, immediately call in ophthalmologist.	
	Following ingestion:	Rinse the oral cavity, drink at most 1-2 glasses of water. Do not induce vomiting. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.	
	Self-protection of the first aider:	-	
4.2.	Most important symptoms and effects, both acute and delayed		
	Following inhalation: se	itation of the mucous membrane of the nose/throat may occur (burning nsation, urge to sneeze, and runny nose). High concentration may cause ficult breathing, coughing fits, chest tightness, headache, vertigo and owsiness.	



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

SECTIO	TION 5 Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	No information available			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Possible liberation of toxic carbon monoxide and formaldehyde gases due to thermal decomposition (increased temperature). Explosive mixtures of formaldehyde vapors and air, and methanol and air also present danger.			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray, in order to prevent explosion.				
5.4.	Additional information				
	Remove sources of heat and ignition	n. Do not contaminate the environment with extinguishing media.			

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



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

SECTIO	CTION 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	fr	se in well ventilated storage rooms. Keep away om sources of heat and ignition. Carry out leasures for preventing static electricity.			
	Measures to prevent aerosol and dust generation	n: Se	ecure proper ventilation.			
	Measures to protect the environment:		revent spilling into the sewage system and aterways.			
	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 incon	npatibili	ties			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a w ventilated storage rooms at temperatures ranging from 15 to 25 °C.				
	Packaging materials:	Manufacturer's original packaging.				
	Requirements for storage rooms and vessels:	Keen away from food and drink Keen the containers				



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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	ON 8. Exp	osure	e contro	ols/persona	l protec	ction			
8.1.	Contro	l para	meters						
	Substa	nce		CAS N	٧o	•	exposure limit term values	Bio	ological limit values
						ppm	mg/m³		
Forma	ldehyde			50-00	-0	0.3/0.6	0.37/0.74		-
Acetic	acid, glac	ial		64-19	-7	10/20	25/50		-
-									
Substaname:		-							
EC No	:	-		CAS No:	-				
DNEL									
						Industrial			
Poute	of expos	curo.	Acute		Acute	Chronic		Chronic	
Noute	or expos	oure.	effe	ffect local effe		ect systemic	effect loc	al	effect systemic
Oral			-		-		-		-
Inhala	tion		0.75 m (forma	g/m³ ldehyde)	-		0.375 mg/m ³ (formaldehyde))	9 mg/m³ (formaldehyde)
Derma	al		-		-		0.037 mg/cm ² (formaldehyde)	١	240 mg/kg (formaldehyde)
Critica	l physical	paran	neters: s	olubility, fla	mmabili	ty, corrosivity:	-		
						Consumer			
Route of exposure:		_	Acute ect local	Acute effect systemic		Chronic effect loc		Chronic effect systemic	
Oral			-		-		-		4.1 mg/kg (formaldehyde)



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					T	•	Γ	•
Inhalation	ı	-		0.1 mg/m ³ 3.2 mg/m ³ (formaldehyde) (formaldehyde)				
Dermal		-	-		0.012 mg/cm ² (formaldehyde)		120 mg/ (formald	-
PNEC								
Environme	ental prote	ection target		PNEC				
Fresh wate	er			0.44 mg/	(I (formaldehyde)			
Freshwate	r sedimer	its		2.3 mg/k	g (formaldehyde)			
Marine wa	ater			0.44 mg/	(I (formaldehyde)			
Marine se	diments			2.3 mg/k	g (formaldehyde)			
Food chai	n			No information available				
Microorga	anisms in s	sewage treatment		0.19 mg/l (formaldehyde)				
Soil (agric	ultural)			0.2 mg/k	g (formaldehyde)			
Air				No information available				
	:							
8.2.	Exposu	ire controls						
8.2.1.	Appro	oriate engineering cor	ntrols					
		nce/mixture related m t exposure during ide		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				•
	Structu	ıral measures to preve	ent exposure:	No info	mation available			
	Organi exposu	sational measures to ire:	prevent		ation of work in o e during work pro		reduce otl	ner worker's
	Techni	cal measures to preve	nt exposure:	Secure proper workspace ventilation in order to keep				•
8.2.2.	Person	al protection equipme	ent					
8.2.2.1.	Eye an	Safety glasses d face protection: levels of conce			t stick to face (EN ation in air; protec of higher levels c	ctive ga	s mask tha	at covers the
8.2.2.2.	Skin pr	otection						



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	Hand protection:	Protective gloves must be according to the Directive 89/686/EEC and standard EN 374. Full contact: Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min Splash contact: Gloves material: polychloroprene Glove thickness: 0.65 mm Time until perforation: > 240 min
	Other skin protection:	Wear protective suit with long sleeves (EN 340) that protects from chemicals and shoes that cover the entire foot.
8.2.2.3.	Respiratory protection:	Full face mask (EN 136) or half mask (EN 140) equipped with a recommended "ABEK" (EN 14387) filter 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:	yellow	No information available					
	Odour/odour threshold:	pungent/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					



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Trading name:		BOUIN'S	SOLUTION		
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	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
9.2.	Other information		
	-		·

SECTIO	ON 10.: Stability and reactivity	
10.1.	Reactivity:	See subsections 10.3 through 10.5.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3.	Possibility of hazardous reactions:	Explosion hazard when in contact with: nitric acid, hydrogen peroxide, nitromethane, acids, phenol, nitrogen dioxide Exothermic reactions occur with the following substances: bases, nitrides, polymerization initiators, sodium hydroxide, potassium permanganate, furfuryl alcohol, highly oxidizing agents, perchloric acid with aniline, hydrochloric acid, magnesium carbonate.
10.4.	Conditions to avoid:	Sources of heat, sparks, ignition, and low temperature.
10.5.	Incompatible materials:	Highly oxidizing agents, acids, bases and different metals, steel manufactured by melting, copper.
10.6.	Hazardous decomposition products:	Carbon oxides.

SECTION 11. Toxic	SECTION 11. Toxicological information									
11.1. Information	11.1. Information on toxicological effects									
Acute toxic	Acute toxicity:									
Route of exposure:	Method	Species	Dose LD_{50}/LC_{50} or ATE_{mix}	Exposure time	Results					



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Oral exposure:	No information available	rat	LD ₅₀	No informati available	on		200 mg/kg maldehyde)
Dermal:	No information available	rabbit	LD ₅₀	No informati available	on	>270 mg/kg (formaldehyde)	
Inhalation exposure:	No information available	rat	LC ₅₀	4 h	0.	.58 mg/	'l (formaldehyde)
Specific ta	orget organ toxicity –	single exposui	re (STOT SE	·):			
	Sp	ecific effects		Target c	rgan		Note
Oral exposure:	No information av	ailable		-		-	
Dermal exposure:	No information av	ailable		-		-	
Inhalation exposure:	No information av	ailable		-		-	
Aspiration	hazard:	poss	ible respira	tory system irritat	tion.		
Irritation a	and corrosion						
	Expos	ure time	S p e c i e s	Evaluation	Me	thod	Note
Skin corrosion/irrita	ation No informa	ition available			-		Causes skin irritation.
Serious irritation to	eyes: No informa	ition available			-		Causes serious eye irritation.
Sensitizati	on						
Dermal exposure:	May cause allergic	skin reaction.					
Inhalation exposure:	Allergic persons m		ation.				
Symptom	s related to the physi	cal, chemical a	nd toxicolo	ogical characterist	ics		
Oral exposure:		an cause sever		mouth and throa		anger o	f esophagus and
Dermal exposure:	Depending on c		•	re time, redness a	•	nied by	sensation of



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Inhalation exposure: and			of breath. Inl	•	time, it may lea use formation of		_
Eye exposure:		Causes serious nazard.	eye damage	e. Fumes may ca	use lacrimal irrit	ation (tearing), b	lindness
Repeate	ed dose	toxicity (subac	ute, subchro	onic, chronic)			
; ·		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availal	information ole	No informati on available	No information available	No information available	No information available	No information available
Subacute dermal	No information available		No informati on available	No information available	No information available	No information available	No information available
Subacute inhalation	No availak	information ole	No informati on available	No information available	No information available	No information available	No information available
Subchronic oral	No availal	information ole	No informati on available	No information available	No information available	No information available	No information available
Subchronic dermal	No availat	information ole	No informati on available	No information available	No information available	No information available	No information available
Subchronic inhalation	No availal	information ole	No informati on available	No information available	No information available	No information available	No information available
Chronic oral	No availal	information ole	No informati on available	No information available	No information available	No information available	No information available
Chronic dermal	No availat	information ole	No informati on available	No information available	No information available	No information available	No information available



Trading name:

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Chronic inhalation	No information available	No informati on available	formati information information information available available		No information available	No information available		
Specific	c target organ toxicity -	- repeated e	exposure (STOT	RE)·				
	Specific effe		Aposare (STOT	Target organ		Note		
Subacute oral	No information availa		No informa	ation available		No information available		
Subacute dermal	No information available		No informa	ation available		No information available		
Subacute inhalation	No information available		No informa	ation available		No information available		
Subchronic oral	No information available		No informa	ation available		No information available		
Subchronic dermal	No information available		No informa	ation available		No information available		
Subchronic inhalation	No information available		No informa	ation available		No information available		
Chronic oral	ronic oral No information available		No informa	ation available		No information available		
Chronic dermal	No information available		No informa	ation available		No information available		
Chronic inhalation	No information availa	able	No informa	No information available				
CMR et	ffects (carcinogenicity; ı	mutagenicit	y; reproductive	toxicity)				
	ogenicity:			to have carcinog	enic potential	for humans.		
Mutage	enicity <i>in vitro</i> :		No inform	nation available.				
Genoto	oxicity:		No inform	No information available.				
Mutage	enicity <i>in vivo</i> :		No inform	nation available.				
Germ o	ell mutagenicity:		Suspected	l of causing gene	tic defects.			
Reprod	luctive toxicity:		No inform	nation available.				
Summa	•	of the CN	MR No inform	nation available.				
11.2. Informa	ation on other hazards:							
11.2.1. Endocr	ine disrupting properti	es:						



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

12.1. Toxic	ity									
Acute (short-toxicity	erm)	Dose	Exposu time	re	Species	Meth	od	Evaluation		Note
Fish		LC ₅₀	96 hour	S	Pimephales promelas	_		24.1 – 41 mg/l (formaldehyde)	-	
Crustacea:		EC ₅₀	48 hour	S	water flea (Daphnia magna)	-		2 mg/l (formaldehyde)	-	
Algae/aquatic	plants	IC ₅₀	72 hour	S	algae	-		2.5 mg/l (formaldehyde)	-	
Other organisi	ms	-	-		-	-		-	-	
Chronic (long- toxicity	term)	Dose	Exposu time	re	Species	Meth	od	Evaluation		Note
Fish		LC ₅₀	96 hour	S	-	-		No information available	-	
Crustacea:		EC ₅₀	48 hour	S	-	-		No information available	-	
Algae/aquatic	plants	IC ₅₀	72 hours		-	-		No information available	-	
Other organisi	ns	-	-		-	-		No information available	-	
		and degradal	oility							
	Deg	gradation ha	f-lives		Method			Evaluation		Note
Marine water	No in	formation av	ailable	No	information a	vailable	١	No information available		-
Fresh water	No in	formation av	ailable	No	information a	vailable	١	No information available		-
Air	No in	formation av	ailable	No	information a	vailable		No information available		-
Soil	No in	formation av	ailable	No	information a	vailable	١	No information available		-
Biode	gradati	ion								
% Degradatio		Time (da	ys)		Method		E	valuation	Note	<u> </u>
No informatio available		information	•		lo information vailable			ormation -		



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	1										
12.3.			ative potenti								
	Partitic	n co	efficient: n-c	ctanol/	water (log	Kow):					
Valu	ue	Con	centration	рН	°C	M	ethod	Eva	luation		Note
No informa availabl	ation	No ir availa	nformation able	-	-	No info	ormation le	No info availabl	rmation e	-	
	Biocon	centr	ation factor	(BCF)							
V	'alue		Spec			Method	d	Evalua	ation		Note
	rmation		No informat available			nformatic lable		No informa available		-	
	Chroni		tovicity								
	Chroni	c eco	toxicity		-						
	Value	;	Do	se	Exposure time	Spe	cies	Method	Evaluati	on	Note
Chronic	toxicity	on fi	sh LC ₅₀	i	No nformatio n available	No informa availab	1	No informati on available	No informat available		-
	toxicity ea (Daph		EC ₅₀	i r	No nformatio n available	No informa availab	1	No informati on available	No informat available		-
12.4.	Mobilit	ty in a	rail								
12.4.	1	•	redicted dist	ribution	a in anviro	nmontal	comparti	monts:			
	Known	or p	redicted dist	ributior	i in enviro	nmentar	Lomparu	ments.			
	Surface	e tens	sion:								
	Val	ue	°C		Concer	tration		Method			Note
	No inform availab		No informat available		No infor available		No info	ormation ble	-		



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	Adsorption / desorption		,		,
Transpo	rt A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wat	er No information available	No information available	No information available	No information available	-
Water-a	ir No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB asse	essment			
	No information available				
12.6.	Endocrine disrupting proper	ties			
	The substance/mixture does according to REACH Article Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulat		
•					
12.7.	Other adverse effects				
	No information available				
SECTION	N 13. Disposal consideratio				
13.1.	Waste treatment methods	115			
13.1.	waste treatment methods				
13.1.1.	Product/Packaging dispos	al:			
	Submit for disposal to the Protection.	legal person autho	rized by the Ministr	y of Environmental a	and Nature
13.1.2.	Waste codes/waste design	nations according to	o Law:		
	15 01 10*: packaging that substances	contains residual h	azardous substance:	s or is contaminated	l with hazardous
13.1.3.	Waste treatment – relevan	t information:			
13.1.5.	No information available	t imormation.			
13.1.4.	Sewage disposal – relevan	t information:			



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13.1.5.	Other disposal recomme	ndations:
	authorized by the minist	oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge.
13.1.6.	Relevant Community pro	ovisions:
	-	
SECTIO	N 14. Transport informati	on
	Transporting/shipment by	
UN num		Not subject to marking regulations.
	er shipping name:	-
	rt hazard class(es):	-
Packing	-	-
Environr	nentally hazardous:	-
	precautions for user:	-
-	Transporting/shipment by	rail (RID)
UN num	ber:	Not subject to marking regulations.
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	nentally hazardous:	-
Special p	precautions for user:	-
	Inland waterway transport	(ADN)
UN num	ber:	Not subject to marking regulations.
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	nentally hazardous:	-
Special p	precautions for user:	-
	Transporting/shipment by	sea (IMDG)
UN num	ber:	Not subject to marking regulations.
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environn	nentally hazardous:	-



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Special precautions for user:	-
Transport in bulk according t of MARPOL 73/78 and the IBC	_
Transporting/shipme	nt by air (ICAO-TI/IATA-DGR)
UN number:	3334
UN proper shipping name:	Aviation regulated liquid, n.o.s. (formaldehyde)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	None
Special precautions for user:	-
FILTINGE INTOLMATION.	rmaldehyde solutions, nonflammable, containing less than 25% of formaldehyde do t adhere to the ADR regulations.

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 product and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety		
	of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);		
	EU regulations Authorization and/or restr Authorizations: Restrictions:		



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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	
	-	

SECTIO	ON 16	Other information				
16.1.	Indi	cation of changes:	-			
16.2.	Abb	previations and acronyms	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	3. Key literature references and source of data:		-			
16.4.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classifi	ication	according to CLP	Classification procedure			
_			-			
16.5.	Relevant H statements (num		per and full text)			
	226		Flammable liquid and vapor.			
		301+311+331	Toxic if swallowed, in contact with skin or if inhaled.			
		302+312+332	Harmful if swallowed, in contact with skin or if inhaled.			
		314	Causes severe skin burns and eye damage.			
	H:	315	Causes skin irritation.			
ŀ	п.	317	May cause allergic skin reaction.			
		319	Causes serious eye irritation.			
		335	May cause respiratory irritation.			
		341	Suspected of causing genetic defects.			
		350	May cause cancer.			
16.6.	Trai	ning advice:	-			



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

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

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES					
6.1.	Personal precautions, protective 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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	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 ³	BIC	ological limit values	
Hvdro	gen chloride	<u> </u>	7647-0	01-0	1	5/10	8/15			
y	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 ₅₀	-	-	
Dermal exposure:	No information available	-	LD ₅₀	-	-	
Inhalation exposure:	No information available	-	LC ₅₀	-	-	
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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Trading name:	FERRI REAGENT, WEIGERT B							
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Fish	LC ₅₀	96 hours	-	No information available	-	-
Crustacea:	EC ₅₀	48 hours	-	No information available	-	-
Algae/aquatic plants	IC ₅₀	8 days	-	No information available	-	-
Microorganisms	LC ₅₀	72 hours	-	-	-	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

12.2. Persistence and degradability

Abiotic degradation

	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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Trading name: FERRI REA							REAGE	NT, W	/EIGERT	В		
Produ	ct code:	FR-OT	Γ-X**		Rev	ision d	ate:	21 De	ec 2022	Ve	ersion:	5
			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	V 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 ₅₀	No infor avail	mation able	No infori availa	mation able	No infor avail	rmation lable	No information available		-
	c toxicity o		EC ₅₀	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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Trading name:	FERRI REAGENT, WEIGERT B							
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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 INFORI	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 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:	-					
	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 prop	er shipping name:	-					
Transport hazard class(es):		-					
Packing	group:	-					
Environr	mentally hazardous:	-					
Special precautions for user:		-					



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

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:	s and _			
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:	<u>-</u>			
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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ANNEX:
EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT
-



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Trading name:		HCL REAGENT, A			
Product code:	HCLAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

SECTI	ION 1: Identification of t	he substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	HCL REAGE	NT, A.F.O.	IT, A.F.O.G.		
	Chemical name:	-				
	Catalogue number:	HCLAF-OT-X**				
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against		
	Uses:		For use	with special staining kits in histopathology.		
	Uses advised against:		Only the	e identified uses are advised.		
	Reason why uses advis	ised against: device, registered at t		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	Details of the supplier of the safety data sheet				
	Supplier:	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039 msds@biognost.hr			
	Telephone number:					
	Telefax.:					
	e-mail of competent p	erson:				
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection an	d Rescue Dire	ectorate: 112			
	Medical information:	Medical information:		+385 1 2348 342		
	Other information:			-		

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



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Trading name:	HCL REAGENT, A.F.O.G.		.F.O.G.		
Product code:	HCLAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

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

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	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, A.F.O.G.		ı.F.O.G.		
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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.	
4.3	Indication of any immediate medi	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 ₂ Large fire - water spray or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2	Special hazards arising from the su	ubstance 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 contaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.			

SECTION 6. Accidental release measures

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 cont	ainment and cleaning up	
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.	
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.	
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	SECTION 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:				



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Product code:	HCLAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

	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 8. Exposure controls/personal protection										
8.1 Control parameters										
Occupational exposure limit Substance CAS No values/short term values Biological limit values										
				рр	m	mg/m³				
Ethanol		64-	-17-5	100	0/-	1900/-	-			
Hydrogen chloride	ı.	7647	7647-01-0		10	8/15	-			
	·									
Substance name:	-									
EC No:	-	CAS No	:							
DNEL										
				Indus	strial					
Route of exposure:	Acu effect		Acur effect sy			Chronic Chronic effect local effect systemic		Chronic effect systemic		
Oral	-		-		-			-		
Inhalation	1900 mg (ethanol)		-		-			380 mg/m³ (ethanol)		
Dermal	-		-		-			343 mg/kg (ethanol)		



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Critical pl	hysical parar	meters: solubility,	flammability	, corrc	sivity:	_		
				Cons	sumer			
Route of exposure		Acute effect local	Acute effect syst		Chronic Chronic chronic effect local effect systemic			
Oral					-		87 mg/kg bw/day (ethanol)	
Inhalation	า	950 mg/m³ (ethanol)	-		-		114 mg/m³ (ethanol)	
Dermal		-	-		-		206 mg/kg (ethanol)	
PNEC								
Environm	ental protec	tion target		P	PNEC			
Fresh wat	ter			0	.96 mg/l (eth	anol)		
Freshwate	er sediments	5		3	.6 mg/kg (eth	nanol)		
Marine w	ater			0	0.79 mg/l (eth	anol)		
Marine se	ediments			2	9 mg/kg (eth	nanol)		
Food cha	in			3	80-720 mg/k	g kg (ethanol)		
Microorg	anisms in se	wage treatment		5	80 mg/l (etha	anol)		
Soil (agrid	cultural)			0	0.63 mg/kg (et	thanol)		
Air			n	o information	n available			
8.2	Exposure	e controls						
8.2.1.	•	iate engineering (controls					
	Substand	ce/mixture related exposure during i	d measures to	^{72.} b	•		tilated rooms. Use personal ot eat, drink or smoke in the	
	Structura exposure	al measures to pre	event	lı	In accordance with Section 7.			
	Organisa exposure	ational measures t e:	to prevent		Organization of work in order to reduce other worker's influence during work process.			
Technical measures to prevent exposure: con				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.	Safety glasses that stick to face (EN 166) or visor in case of lower					in air; protec	tive gas mask that covers the	
	8.2.2.2. Skin protection							



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Trading name:	HCL REAGENT, A.F.O.G.						
Product code:	HCLAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	6		

	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

	SECTION 9. Physical and chemical properties								
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:	24 °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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Trading name:		HCL REAGENT, A.F.O.G.						
Product code:	HCLAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	6			

	рН:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n- octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2	Other information		
	-		

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

SECTION 11. To	oxicological infor	mation								
11.1 Inform	ation on hazard cla	sses as defined i	n Regulation (EC	C) No 127	2/2008					
Acute toxicity:										
Route of exposure:	Method	Species	Dose LD ₅₀ /L ATE _{mix}		Exposure ti	me	Results			
Oral:	-	rat	LD ₅₀		_		7.060 mg/kg (ethanol)			
Dermal:	-	rabbit	-		-		>20.000 mg/kg (ethanol)			
Inhalation:	-	rat	LC ₅₀		4 h		20.000 mg/l			
Specifi	c target organ toxi	city – single expo	sure (STOT SE):							
	Spe	ecific effects		Target o	rgan		Note			
Oral:	No information available No information available					-				
Dermal:	nal: No information available				No information available -					
Inhalation:	No information	on available								



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Aspiration	on haz	ard:		N	o information a	vailable.			
ii									
Irritation and corrosion									
		E	xposur	e time	Species	Evaluation	Method	Note	
Skin corrosion/irritation	on:	-		-			-		
Serious eye damage/irritation	า	-		-			-		
Sensitiza									
Skin sensitization				ormation avail					
Respiratory sensi	tizatio	n:	No inf	ormation avail	able.				
Cymnto	me role	2+2d +2	tha nh	weical chamic	al and toyicalog	ical characteristi			
Oral exposure:	IIIS TEIG		•	on available.	ar ariu toxicolog	icai characteristi	LS		
Dermal exposure	•			on available.					
Inhalation exposu				on available.					
Eye exposure:				on available.					
Repeate	d dose	e toxici	ity (sub	acute, subchro	nic, chronic)				
, .		Dose	-	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No availa	inform able	nation	No information available	No information available	No information available	No information available	-	
Subacute dermal	No availa	inform able	nation	No information available	No information available	No information available	No information available	-	
Subacute inhalation	No information inf		No information available	No information available	No information available	No information available	-		
available		No information available	No information available	No information available	No information available	-			
Subchronic dermal	No availa	inform able	nation	No information available	No information available	No information available	No information available	-	



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Trading name:		HCL REAGENT, A.F.O.G.						
Product code:	HCLAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	6			

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	-

Chacific target ergan	tavicity rapastad	exposure (STOT RE):
Specific farder ordan	loxicity – rebeated	exposure (STOT RE).

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

CMR effects (carcinogenicity; mu	tagenicity; reproductive toxicity)					
Carcinogenicity:	Based on available data, the classification criteria are not r					
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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	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 ₅₀	96 hours	No information available	No information available	8.140 mg/l (ethanol)	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants	IC ₅₀	4 days	No information available	No information available	5.000 mg/l (ethanol)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Dose Exposure Specie		Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
	_	_	_	_		_

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 REAGE	NT	, A.F.O.G.			<i>.</i>	
Product code:		HCLA	F-OT-	X**		Dat	e of compilati	on:	21 De	c 2022		Version:	6
			formation available			available a No information		ava No	No information available No information available		-		
						avaiiai	Jie	ava	illable				
Biodeg	rad	ation											
% Degradation	n		Time ((days)		1	Method		Evaluation	n		Note	
No information No available ava		No avail		nformati	ion	No inta	formation ble		informatior ilable	1	No in availa	formation ble	
		ılative p					<u>, </u>						
Value		ater par ncentrat		coefficie pH	ent (lo	°C	Method		Evalua	ation	0 0 0 0 0 0 0	Note	
			.1011	- Pi i			-		-		_	Note	
Biocon	cen	tration 1	factor	(BCF)							-		
Value			Spec				Method	Evaluation			Note		
No information available		No availab		nformati	on	No information available		No information available		on	-		
								8 8 9 9 9					
Chroni	C ec	otoxicit	V										
Value			Do	se		osure me	Species		Method	Evalu	uation	Note	
Chronic toxicity on fish		fish	LC ₅₀	ir	No information available		No information available	in	No No information information available avail		nation - ble		
Chronic toxicity crustacea (<i>Daph</i>)	EC ₅₀	ir	No information available				o formation vailable	No inform availat		-	
12.4 Mobilit													
Known	or	nrodicto	nd dict	ribution	in or	nvironr	nental compar	ma	ntc.				



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Trading name:		HCL REAGENT, A.F.O.G.					
Product code:	HCLAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	6		

	No	informatio	n available						
	Surf	ace tensio	n:						
	,	Value	°C	Concentration	n	Metho	od		Note
	No information available		No information available	No information available		No information available		-	
	Ads	orption / d	•						
Transpo	-ransport A/D coefficient Henry's constant			log Kow	Eν	aporation rate	Meth	od	Note
Soil-water		No available	information	No information available		o information ailable	No information available		-
Water-air		No available	information	No information available		o information ailable	No information available		-
Soil-air		No information available				o information ailable	No inform available	nation	-
12.5			and vPvB asses	ssment product does not c	ont	ain any PBT or v	PvB substa	nces.	
12.6			upting properti able data, does	es not contain endo	crin	e disruptors.			
			<u> </u>			<u> </u>			
12.7	Oth	er adverse	effects						
	No	further rele	evant information	on available.					
SECTIO	N 13	. Disposal	consideration	s					
13.1	W	aste treatr	ment methods						
13.1.1.	Pr	oduct/Pac	kaging disposa	:					
		ubmit for d otection.	lisposal to the l	egal person autho	rize	d by the Ministr	y of Enviror	nmental	and Nature
13.1.2.	10	lasta sadar		tions according to	•				



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Trading name:	HCL REAGENT, A.F.O.G.					
Product code:	HCLAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

	15 01 10*: Packaging that substances	t contains residual hazardous substances or is contaminated with hazardous				
13.1.3.	Waste treatment – releva	nt information:				
	No information available					
13.1.4.	Sewage disposal – relevant information:					
	Waste must not be dispo	sed of into the sewage system.				
13.1.5.	Other disposal recomme	ndations:				
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.					
13.1.6.	Relevant Community pro	visions:				
	Disposal must be made a	ccording to official regulations.				
SECTION	N 14 TRANSPORT INFORM	1ΔΤΙΟΝ				
JECTIO!	Transporting/shipment by					
UN num		1170				
UN proper shipping name:		Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing		III				
Environr	nentally hazardous:	-				
Special p	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:	III				
Environr	nentally hazardous:	-				
Special p	precautions for user:	-				
	Inland waterway transport	(ADN)				
UN num	ber:	1170				
UN prop	er shipping name:	Ethanol solution				
	rt hazard class(es):	3				
Packing	aroup:					



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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:	III
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:	III
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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



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Trading name:	HCL REAGENT, A.F.O.G.				
Product code:	HCLAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

	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 1999 guideline)	/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessment	
	None	

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

amended by Regulation (EU) No. 2020/878

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Trading name:		HCL REAGENT, A.F.O.G.				
Product code:	HCLAF-OT-X**	Date of compilation:	21 Dec 2022	Version:	6	

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

ANNEX: E	xposure scenario resulting	to chemical safety assessmen	it
_			



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Trade name:	HEMATOXYLIN, WEIGERT A					
Product code:	HEMA-OT-X**	Date of compilation:	21 Dec 2022	Version:	5	

1.1.	Product identifier					
	Trade name:	HEMATOXYLIN, WEIGERT A				
	Chemical name:	-	-			
	Catalogue number:	Catalogue number: HEMA-OT-X**				
1.2.	Relevant identified uses of the substance or mixture and uses advised against					
	Uses:		For use ir	n special staining kits.		
	Uses advised against:		Only the	Only the identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:	BioGr				
	Address:	Medjı	Medjugorska 59, Zagreb			
	Telephone number:	+385	+385 1 2409997			
	Telefax:	+385	+385 1 2404039			
	e-mail of competent p	erson: <u>msds</u>	<u>@biognost.h</u>	n <u>r</u>		
	National contact: -					
1.4.	Emergency telephone number					
	National Protection and Rescue Director		rate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category code: Hazard statements*:				
	Flam. Liq. 2	H225			
	Skin. Sens. 1	H317			
	Muta. 2	H341			
	Canc. 2	H351			
2.1.2.	Additional information				
	-				
*For full text of Hazard- and EU Hazard-statements: see Section 16					
2.2.	Label elements				
	Product identification: HEMATOXYLIN, WEIGERT A				



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Trade name:	HEMATOXYLIN, WEIGERT A			· ·	
Product code:	HEMA-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

	Identification number:	-			
	Authorisation number:	-			
	Hazard pictograms:	GHS02 GHS07 GHS08			
	Signal word:	Danger			
	Hazard statements: Precautionary statement:	 H225 Highly flammable liquid and vapor. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P308 + P313 IF exposed or concerned: Get medical advice/attention. 			
	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)	
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	
121-79-9/ 204-498-2/ 607-198-00-3	-	1- 3 %	propyl gallate	Acute Tox. 4, H302 Skin Sens. 1 H317	



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Product code:	HEMA-OT-X**	Date of compilation:	21 Dec 2022	Version:	5	

123-31-9/ 204-617-8/ 604-005-00-4	1-3%	hydroquinone	Acute Tox. 4; H302 Skin Sens. 1; H317 Eye Dam. 1; H318 Muta. 2; H341 Canc. 2; H351 Aquatic Acute 1; H400
---	------	--------------	---

SECTI	ON 4. First aid measures				
4.1.	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove contaminated clothing. Thoroughly wash with water for 15 minutes.			
	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 15 minutes with the eyelids held wide open.			
	Following ingestion:	Rinse the mouth thoroughly with water. If the afflicted person is conscious, provide them with large amounts of water. Consult a physician.			
	Self-protection of the first aider	-			
4.2.	Most important symptoms and eff	Most important symptoms and effects, 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				

SECTION 5. Firefighting measures

5.1. Extinguishing media



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	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO ₂ Large fire - water spray or alcohol-resistant foam				
	Unsuitable extinguishing media:	Water jet				
5.2.	Special hazards arising from the substance or mixture					
	Hazardous combustion products:	Incomplete combustion of the product.				
5.3.	Advice for firefighters	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	ON 6. Accidental release	measures			
6.1.	Personal precautions, p	rotective equi	pment and emergency procedures		
6.1.1.	For non-emergency per	rsonnel			
	Protective equipment:		When disposing of small quantities use protective clothing. When disposing of large quantities use self-contained open-circuit compressed air breathing apparatus or self-contained closed-circuit air breathing apparatus.		
	Accident prevention me	Secure a safety zone, remove all ignition sources, and in case of an accident prevention methods: 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 symbol of flame and devices that cause sparks. Remove or neutralize all factors that may exacerbate the condition, use all allowed means of containing the situation are use recommended means of personal protection.			
	Emergency procedures:				
6.1.2.	For emergency respond	ders:	ers:		
	Self-contained open-cir dissipation (fireproof cle	•	cuit compressed air breathing apparatus, a set for protecting the body from heat thing).		
6.2.	Environmental precauti	ons:			
	·	•	nt further spillage of chemicals. Prevent environmental pollution by the sewage system, surface water or groundwater.		
6.3.	Methods and material f	or containme	nt 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:	Sawdust, sa	Sawdust, sand, mineral adsorbents		
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).			



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Trade name:		HEMATOXYLIN, WEIGERT A					
Product code:	HEMA-OT-X**	Date of compilation:	21 Dec 2022	Version:	5		

6.4.	Reference to other sections
	-

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

SECTION 8. Exposure controls/personal protection								
8.1.	Control parameters							
Substance		CAS No	Occupational exposure limit values/short term values		Biological limit values			
			ppm	mg/m³	-			
Ethano	I	64-17-5	1000/-	1900/-	-			
Ethylen	ne glycol	107-21-1	20/40	52/104	-			
Hydroc	quinone	123-31-9	-/0,5	-/-	-			



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Trade name:	e name: HEMATOXYLIN, WEIGERT A					
Product code:	HEMA-OT-X**	Date of cor	npilation:	21 Dec 2022	Version: 5	
;				i	i i	
Substance: -						
EC No: -	CAS No:	-				
DNEL		·				
		Ind	lustrial			
Doute of avecause.	Acute	Acut	e	Chronic	Chronic	
Route of exposure:	effect local	effect sys	temic	effect local	effect systemic	
Oral	-	-		-	-	
Inhalation	1900 mg/m ³ (ethanol)	-		35 mg/ kg	380 mg/m³ (ethanol)	
	(ethanol)			(ethylene glycol)	242 mg/kg (athanal)	
Dermal	_	_		_	343 mg/kg (ethanol) 106 mg/kg (ethylene	
Cimai				glycol)		
Critical physical parar	neters: solubility, fla	mmability, cor	rosivity:			
		Cor	nsumer			
Acute Acute		e	Chronic	Chronic		
Route of exposure:	effect local	effect systemic		effect local	effect systemic	
Oral	Oral	-		-	-	
Inhalation	950 mg/m ³	_		7 mg/kg	114 mg/m³ (ethanol)	
middiation	(ethanol)			(ethylene glycol)	TTTTIIg/III (etilalioi)	
					206 mg/kg (ethanol)	
Dermal	-	-		-	53 mg/kg (ethylene glycol)	
PNEC					giycoi)	
Environmental protect	tion target		PNEC			
Livirorimental protect	turget		0.96 mg/l (ethanol)			
Fresh water			10 mg/l (ethylene glycol)			
			3.6 mg/kg (ethanol)			
Freshwater sediments	S		37 mg/kg (ethylene glycol)			
Marina watar			0.79 mg/l (ethanol)			
Marine water			1 mg/l (e	thylene glycol)		
Marine sediments			2.9 mg/k	g (ethanol)		
Marine Scaments			3.7 mg/k	g (ethylene glycol)		
Food chain				mg/kg kg (ethanol)		
Microorganisms in sewage treatment			_	(ethanol)		
<u> </u>			<u> </u>	y/l (ethylene glycol)		
Soil (agricultural)			_	kg (ethanol)		
(g) ()			1.53 mg/kg (ethylene glycol)			



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Trade name:		HEMATOXYLIN, WEIGERT A					
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Air			no information available				
8.2.	Exposure controls Engineering measures						
8.2.1.	Engineering measures						
	Substance/mixture related measure prevent exposure during identified		Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to prevent exposure:		No information available				
	Organisational measures to prever exposure:	nt	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to prevent exposure:		See Section 7.2				
8.2.2.	Personal protection equipment						
8.2.2.1.	Eye and face protection:	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	skin protection					
	2016/4		tective gloves must be according to the EU Directive 6/425/EEC and standard EN 374.				
	Hand protection:	Glove material: nitrile rubber Glove thickness: ≥0.50 mm					
			Break through time: >480 min				
	Other skin protection:	such a spilling suitabl	g everyday work use cotton clothing and suitable footwear, s rubber boots or shoes that cover the entire foot. In case of g hazard, use clothing made of impermeable material le for protection from liquid chemicals (Viton, PVC, himex) ootwear 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 inf	ormation available				
8.2.3.	Environmental exposure controls						
	Substance/mixture related measures to prevent exposure:	See	e Section 6				
	Structural measures to prevent exposure:	Use	e modern equipment.				
	Organisational measures to prevent exposure:		dapt the work process to the required working conditions of the workplace.				
	Technical measures to prevent exposure:	See	ee Section 6				



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Trade name:	HEMATOXYLIN, WEIGERT A					
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ĺ	Information on basic physical an	d chemical properties	
		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
	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

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.				



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Trade name:	HEMATOXYLIN, WEIGER			_	
Product code:	HEMA-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

10.5.	Incompatible materials:	Oxidants, acids, alkali metals.
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.

	oxicological informa		dia D	- 1: (5.0	V NL 40	72 /200	NO.		
	nation on hazard class	ses as define	d in Regul	ation (EC	.) No 12	72/200)8		
Route of exposure:	Method	Species		re dose .C ₅₀ or	Expo tin			Result	S
Oral:	No information available	rat	LD ₅₀		_		7.060 mg/kg (ethanol) 7.712 mg/kg (ethylene gly 367.3 mg/kg (hydroquino		ylene glycol)
Dermal:	No information available	rabbit	LD ₅₀		-		>20.000 mg/kg (ethanol) >3.500mg/kg (ethylene glycol) 367.3 mg/kg (hydroquinone)		
Inhalation:	No information available	rat	LC ₅₀		4 h (ethan	ol)	>8.000) mg/l (etha	nol)
Specif	fic target organ toxicit		posure (S	TOT SE):					
0.1		cific effects		Target organ No information available -				Note	
Oral:	No information							-	
Dermal: Inhalation:	No information				ormatio ormatio			_	
IIIIIaiatiOII.	NO IIIIOIIIIatioii	available		INO IIIIC	Jillatio	ıı avalıc	abie		
Aspira	ation hazard:		No inform	nation av	ailable				
Irritati	ion and corrosion								
	Exposure	time	Species	Evalu	ıation	Me	thod	l	lote
Skin corrosion/irrita	tion:	-		-		-		No available	information
Serious eye damage/irritati	on -	-		-		-		No available	information
Sensit	ization:								
Skin sensitizati	on: No information	available							
Respiratory sensitization:	No information	available							



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Trade name:		HEMATOXYLIN	I, WEIGERT A		
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C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	hugigal altarati	al and taviasis	vigal above stavist	iaa					
Oral exposure:	It may lead to loss of conscio	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).								
Dermal exposure	: Defatting, dry	Defatting, dry skin.								
Inhalation exposure:	Bronchoconst headache, ver	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.								
Eye exposure:	Splatter may of lesions.	Splatter may cause discomfort, stinging sensation, conjunctival redness, corneal surface lesions.								
Repeate	ed dose toxicity (su	bacute, subchr	onic, chronic)							
	Dose	Exposure time	Species	Method	Evaluation	Note				
Subacute oral	No information available	No information available	No information available	No information available	No information available	-				
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-				
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-				
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-				
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	_				



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Trade name:		I, WEIGERT A			
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Chronic inhalation			No information available	No information available	No information available	No information available	n -		
S	Specific target o	organ toxic	ty – repeated ex	posure (STC	T RE):				
**	1 5		Specific effects	·	Target org	gan	Note		
Subacute o	oral	No infor	mation available		No information av		-		
Subacute	dermal	No infor	mation available		No information av	ailable	-		
Subacute i	inhalation	No infor	mation available		No information av	ailable	-		
Subchroni	ic oral	No infor	mation available		No information av	ailable	_		
Subchroni	ic dermal	No infor	mation available		No information av	ailable	_		
Subchroni	ic inhalation	No infor	mation available		No information av	ailable	_		
Chronic or	ral	No infor	mation available		No information av	ailable	_		
Chronic de	ermal	No infor	information available		No information available		-		
Chronic in	halation	No infor	mation available		No information av	ailable	_		
C N	Carcinogenicity: Mutagenicity <i>in</i>		ty; mutagenicity,	Suspecte No infor	ed of causing canc				
	Genotoxicity:				Suspected of causing genetic defects.				
	Mutagenicity in				No information available				
	Germ cell mutaç	-			No information available No information available				
K	Reproductive to	exicity:		INO INTOR	mation available				
	Summary of properties:	evaluation	of the CM	R					
11.2. Ir	nformation on	other haza	rds:						
11.2.1. E	Endocrine disrupting properties:								
	No known endocrine disrupting properties that affect human health.								
11.2.2. C	Other information	ons:							
-									

SECTI	ON 12	. Ecoloc	ical inf	formation:
JEC I I	011 12	. LCOIOC	ncai iiii	OI III a tioii.

12.1. Toxicity



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Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Fish	No information available	8.140 mg/l (ethanol) 72.860 mg/l (ethylene glycol) 0.638 mh/l (hydroquinone)	-
Crustacea:	EC ₅₀	48 hours	water flea	No information available	7.800 mg/l (ethanol) >100 mg/l (ethylene glycol) 0.134 mg/l (hydroquinone)	-
Algae/aquatic plants	IC ₅₀	72 hours	algae	No information available	5.000 mg/l (ethanol) 6.500-13.000 mg/l (ethylene glycol) 0.33 mg/l (hydroquinone)	-
Microorganisms	-	-	No information available	No information available	No information available	_
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	_
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Microorganisms	_	_	_	_	-	_

Abiotic degradation Degradation half-lives Method Evaluation Note No information available No information available No information available

Maille water	INO IIIIOIIIIatioii available	INO IIIIOIIIIatioii available	INO IIIIOITIIatiOII 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	-



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	-										
	Biod	legrad	dation								
% Deg	gradati	on	Ti	me (days)		1	Method	Evaluation	1	Note	9
_			_		_			_		-	
12.3.				potential							
	-			ent: n-octa							
Valu	ıe	Со	ncentra	ition	рН	°C	Method	Evaluati	on	No	te
-		-		-		-	-	-		-	
		oncer	ntration	factor (Bo							
	/alue			Species		Method		Evaluation		Not	
No info availab		on	No in availa	formation	1	No information		No information available	No information available		on
avallab	ile		avalla	ibie		avallal	Jie	avaliable		avallable	
	Chro	onic e	cotoxici	itv							
	!				Exp	osure	_				
	Val	lue		Dose		me	Species	Method		Evaluation	Note
					No		No	No	No	information	
Chronic	c toxic	ity on	fish	LC ₅₀	inform		information available	information		ilable	_
					availal	oie		available			
Chronic		-		EC ₅₀	No inform	nation	No information	No information	1	information	_
crustacea (Daphnia)			availal		available	available	ava	ilable			
12.4.	Mob	oility i	n soil								
	Knov	wn or	predict	ted distrib	ution in e	environr	nental compart	ments:			
	No i	nform	nation a	vailable							
	Surfa	ace te	nsion:								
	\	√alue		°C	С	oncentr	ation	Method		Note	



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	_	rmation lable	No information available	No information available	No information available	-		
	۸۵۰	ovation / d						
Transpo		-	coefficient 's constant	log Kow	Evaporation rate	Method	Note	
Soil-wa	iter	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.	This	substance		ins no components		ther persistent, bioacels of 0.1% or higher.	cumulative and	
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.						
12.6.	The accc	substance, ording to R	/mixture does r EACH Article 5	not contain compon 7(f) or Commission	Delegated regulatio			
	The acco Reg	substance, ording to R	/mixture does r EACH Article 5 I) 2018/605 at l	not contain compon 7(f) or Commission	Delegated regulatio			
	The according Region Other	substance, ording to R ulation (EU er adverse	/mixture does r EACH Article 5 I) 2018/605 at l	not contain compon 7(f) or Commission l evels of 0.1% or hig	Delegated regulatio			
12.7.	The accc Reg	substance, ording to R ulation (EU er adverse adverse eff	/mixture does r EACH Article 5 I) 2018/605 at l	not contain compon 7(f) or Commission l evels of 0.1% or hig	Delegated regulatio			
12.7. SECTIO	Othe No a	substance, ording to R ulation (EU er adverse adverse eff	/mixture does r EACH Article 5 I) 2018/605 at I effects ects are expect	not contain compon 7(f) or Commission l evels of 0.1% or hig	Delegated regulatio			
12.7. SECTIO 13.1.	Other No a Price Sur	substance, ording to Rulation (EU er adverse eff Disposal aste treatmoduct/Paci	/mixture does r EACH Article 5 D) 2018/605 at I effects ects are expect consideration nent methods	not contain compon 7(f) or Commission levels of 0.1% or hig evels of 0.1% or hig	Delegated regulation her.		Commission	
12.6. 12.7. SECTIO 13.1. 13.1.1.	Other No a Superior W	substance, ording to Rulation (EU er adverse eff adverse eff aste treatmoduct/Paclubmit for dotection.	/mixture does reEACH Article 5 (2) 2018/605 at I	not contain compon 7(f) or Commission levels of 0.1% or hig evels of 0.1% or hig	Delegated regulation her.	on (EU) 2017/2100 or	Commission	



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13.1.3.	Waste treatment – relevan	t information:			
	No information available				
13.1.4.	Sewage disposal – relevant	t information:			
	Waste must not be dispose	ed 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 when ignition may occur.				
13.1.6.	Relevant Community provi	sions:			
	-				
SECTION	N 14. Transport information				
	Transporting/shipment by ro	pad (ADR)			
UN num	ber:	1170			
UN prop	er shipping name:	Ethanol solution			
Transpor	t hazard class(es):	3			
Packing	group:	II .			
Environn	nental hazards:	No information available			
Special p	recautions for user:	-			
	Transporting/shipment by ra	il (RID)			
UN num	ber:	1170			
UN prop	er shipping name:	Ethanol solution			
Transpor	t hazard class(es):	3			
Packing	group:	II			
Environn	nental hazards:	No information available			
Special p	recautions for user:	-			
Transporting/shipment by inland		land waterways (ADN)			
UN num	ber:	1170			
UN prop	er shipping name:	Ethanol solution			
Transpor	t hazard class(es):	3			
Packing	group:	II			
Environn	nental hazards:	No information available			
Special p	recautions for user:	-			



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Transporting/shipment by sea (IN	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC.	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmental hazards:	No information available
Special precautions for user:	-
Further information: -	

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



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		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 (EC) 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 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Transport of Hazardous Substances Act
15.2.	Chemical safety assessme	ent
	None	

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:	-			



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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	ication	١	Classification procedure		
_			-		
16.5.	Rel	evant H statements (num	ber and full text)		
		225	Highly flammable liquid and vapor.		
		302	Harmful if swallowed.		
		317	May cause an allergic skin reaction.		
	H:	318	Causes serious eye damage.		
		341	Suspected of causing genetic defects.		
		351	May cause cancer.		
		400	Very toxic to aquatic life.		
16.6.	Trai	ning advice:	-		
			** "X" in the product code marks different volumes (different packaging of the product)		
16.7.	16.7. Further information:		We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX:

EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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Trading name:	PHOSPHOMOLYBDIC ACID, 1% SOLUTION				
Product code:	FMK1-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

SECTI	ION 1 IDENTIFICATION	OF THE SUBS	STANCE/MIX	CTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	PHOSPHO	MOLYBDIC A	CID, 1% SOLUTION	
	Chemical name:	-			
	Catalogue number:	FMK1-OT-X	X**		
1.2.	Relevant identified us	es of the subs	stance or mix	ture and uses advised against	
	Uses:		For use wit	th special staining kits.	
	Uses advised against:		Only the id	lentified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic t: 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:	В	BioGnost Ltd.		
	Address:	N	Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039 msds@biognost.hr		
	Telephone number:	+			
	Fax no.:	+			
	e-mail of competent p	oerson: <u>m</u>			
	National contact:	onal contact: -			
1.4.	Emergency telephone	number			
	National Protection ar	nd Rescue Dir	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:				

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



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Trading name:	PHOSPHOMOLYBDIC ACID, 1% SOLUTION				
Product code:	FMK1-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:		
	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 no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
-	_	-	-	-	

SECTIO	CTION 4 FIRST AID MEASURES					
4.1.	Description of first aid measur	es				
	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 aide	er: Treat symptomatically.				
4.2.	Most important symptoms and	d effects, both acute and delayed				
	FOIIOWING INNAISTION.	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.				
	FOILOWING CAID COUTACT.	Slight irritation. After short exposure, resorption effects are not likely. Long-term exposure may cause drying, cracking and tingling sensation of skin.				



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

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective equi	pment 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 Sect	ion 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	nt and cleaning up			



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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	TION 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:	Keep in tightly closed and upright set containers in a we ventilated storage rooms, and away from sources of hear sunlight, and other incompatible substances.				
	Packaging materials:	Manu	ufacturer's original packaging.			
	Requirements for storage rooms and vessels:	Keen away from food and drink Keen the containers				
	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 (se Section 9).				
7.3.	Specific end use(s)					



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Recommendations:	-
Industrial sector specific solutions:	-

CECTION O EVPOCI	DE COM		CONAL	DDOT	CTION					
8.1. Control para		I KOLS/PER	SUNAL	PKUT	ECTION					
Substance		CAS I			upational exposure limit lues/short term values		Bio	Biological limit values		
				ppm	mg/m³			3		
-		-			-		-	No infor	mation available	
Substance name:										
EC No: -		CAS No:	-							
DNEL						,				
				Ind	lustrial					
Route of exposure:		Acute ect local	effe	Acute		Chronic effect local			Chronic effect systemic	
Oral	_		_			-			-	
Inhalation	-		-			-			-	
Dermal	-		-			-			-	
Critical physical para	meters: s	solubility, fla	mmabilit	ty, cor	rosivity:	ı	-			
				Coi	nsumer					
Route of exposure:	_	Acute ect local	effe	Acute		Chronic effect local		_	Chronic effect systemic	
Oral	-		-			-			-	
Inhalation	-		-			-			-	
Dermal	-		-			-			-	
PNEC										
Environmental prote	ction tar	get			PNEC					
Fresh water			No information available							
Freshwater sediments			No information available							
Marine water			No information available							
Marine sediments					No information available					
Food chain				No information available						
Microorganisms in se	ewage tr	eatment			No information available					
Soil (agricultural)			No information available							



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Air			No information available				
8.2.	Exposure controls						
8.2.1.	Engineering measures						
	Substance/mixture related measures to prevent expoduring identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to pr exposure:	event	No information available				
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equip	ment					
8.2.2.1.	Eye and face protection: Safety glasses that stick to face (preventing splashing) visor.						
8.2.2.2.	Skin protection						
			tective gloves must be according to the EU Directive 2016/425/EEC and adard EN 374.				
	Hand protection:		Glove material: nitrile rubber				
			Glove thickness: ≥0.50 mm				
			Break through time: >480 min				
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No inf	ormation available				
8.2.3.	Environmental exposure of	controls					
	Substance/mixture related measures to prevent expo	See Section 6					
	Structural measures to 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 pre exposure:	event	See Section 6				

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES



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	Value	Method
Physical state:	liquid	No information available
Colour:	yellow	No information available
Odour/odour threshold:	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
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
Particle characteristics:	No information available	No information available

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

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008



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Trading name:	PHOSPHOMOLYBDIC ACID, 1% SOLUTION					
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Acute toxic	ity:					
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure t	ime	Results
Oral exposure:	No information available	-	LD ₅₀	-		-
Dermal exposure:	No information available	-	LD ₅₀	-		_
Inhalation exposure:	No information available	-	LC ₅₀	_		-
Specific tar	get organ toxicity – si	ngle exposure (S	STOT SE):			
	Specifi	c effects	Target	torgan		Note
Oral exposure:	No information a	available	No informati	on available	-	
Dermal exposure:	No information a	available	No informati	on available	-	
Inhalation exposure:	No information a	available	No informati	on available	-	
.						
Respiratory	rirritation:	No infor	mation available			
•	rirritation: and corrosion	No infor	mation available			
•		No infor	Evaluation	Method		Note
•	nd corrosion			Method -		Note
Irritation ar	nd corrosion Exposure time	Species	Evaluation			Note
Irritation ar	Exposure time	Species -	Evaluation -	-		Note
Irritation ar Skin irritation: Eye irritation:	Exposure time	Species - -	Evaluation -	-		Note
Irritation ar Skin irritation: Eye irritation: Sensitizatio	Exposure time	Species - - -	Evaluation -	-		Note
Irritation ar Skin irritation: Eye irritation: Sensitizatio Dermal exposure: Inhalation exposure:	Exposure time No information availa	Species	Evaluation			Note
Irritation ar Skin irritation: Eye irritation: Sensitizatio Dermal exposure: Inhalation exposure:	Exposure time No information availa	Species able able I, chemical and	Evaluation			Note
Irritation ar Skin irritation: Eye irritation: Sensitizatio Dermal exposure: Inhalation exposure: Symptoms Oral exposure:	Exposure time No information availance are lated to the physica	Species able able I, chemical and	Evaluation			Note
Skin irritation: Eye irritation: Sensitization Dermal exposure: Inhalation exposure: Symptoms	Exposure time No information availated to the physical No information availated No informa	Species able able l, chemical and railable	Evaluation			Note



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

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



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Trading name:	PHOSPHOMOLYBDIC ACID, 1% SOLUTION					
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Chronic	inhalation	No informat	ion available	No information available -			
	CMR effects (carcinogenicity	, mutagenicit	y, reproductive toxicity)			
	Carcinogenic	ity:	Based or	Based on available data, the classification criteria are not met.			
	Mutagenicity	in-vitro:	Based or	available data, the classification criteria are not met.			
	Genotoxicity:		Based or	available data, the classification criteria are not met.			
	Mutagenicity	in-vivo:	Based or	available data, the classification criteria are not met.			
	Germ cell mutagenicity:			available data, the classification criteria are not met.			
Reproductive toxicity:			Based or	Based on available data, the classification criteria are not met.			
11.2	Information o	on other hazard	s:				
11.2	Information o	on other hazard	s:				
11.2.1.	Endocrine dis	rupting proper	ties:				
	contain com have endocr according to Commission 2017/2100 o	nce/mixture nponents consine disrupting REACH Articl Delegated regu r Commission 05 at levels c	properties le 57(f) or ulation (EU) Regulation				
11.2.2.	Other informa	ations:					
	_						

SECTION 12 ECOLOGICAL INFORMATION:

12.1. Toxicity

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



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

12.2. Persistence and degradability

Abiotic degradation

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

D: 1		. •
RIOMO	งหาวฝา	tion
Biodec	ıı aua	uon

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

12.3. Bioaccumulative potential

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

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

Bioconcentration factor (BCF)



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'	Value		Species		Method		Evaluation		Note		
No information No informa available available		ation	ation No information available		No information available			No information available			
	Chronic	ecotox	icity								
	Value		Dose		oosure ime	Species	Meth	nod	Eva	aluation	Note
Chroni	ic toxicity (on fish	LC ₅₀	1	information ir	No information available	No informa availab		No inf availal	ormation ole	-
	ic toxicity o cea (<i>Daphi</i>		EC ₅₀	No infor availa	mation	No information available	No informa availab	nation		ormation ole	-
12.4.	Mobility										
12.4.	Known	or pred	icted distributi n available	on in e	environme	ental compart	ments:				
12.4.	No info	or pred rmatior tensior	icted distributi n available n:								
12.4.	Known on No info	or pred rmatior tensior ie	icted distributi n available n: °C		environme oncentrat		ments:	od			Note
12.4.	No info	or pred rmatior tensior le	icted distributi n available n:	C No		ion	Metho formation		-	N	Note
12.4.	Known of No info Surface Value No informa	or pred rmatior tensior le	icted distributi n available n: °C No information	C No	oncentrat informati	ion No inf	Metho formation		_	P	Note
12.4.	No info Surface Valu No informa available	or pred rmation tension ie	icted distributi n available n: °C No information	C No	oncentrat informati	ion No inf	Metho formation		_	N	Note
Transp	No info Surface Valu No informa available	or pred rmatior tensior ie ition e	icted distributi n available n: °C No information available	No ava	oncentrat informati	ion No inf	Metho Formation ole	1	- Method		Note
	No info Surface Valu No informa available Adsorpt	or pred rmation tension ie ition e tion / de A/D c Henry'	icted distribution available C No information available esorption oefficient	No availa	oncentrat informati ailable og Kow nformation	Evaporati n No inform	Methorological Methorological Methorological Methodological Method	ı	Method		
Transp	No info Surface Valu No informa available Adsorpt oort ater No available No available No available	or pred rmation tension ie ition e tion / de A/D c Henry' c ailable	icted distribution available "C No information available esorption oefficient s constant	No availa	oncentration information information able information	Evaporati n No inform	Methoropide on rate	No ir	Method aformati	ion _	

12.5. Results of PBT and vPvB assessment



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rraumg	name:		PHOSPHOMOLYBDIC AC	ID, 1% SOLUTIO	N
Product	code:	FMK1-OT-X**	Date of compilation:	21 Dec 2022	Version: 4
	according		contain components consider or Commission Delegated reg els of 0.1% or higher.		
12.6.	Endocrine	e disrupting properties			
	according		contain components consider or Commission Delegated reg els of 0.1% or higher.		
12.7.	Other adv	verse effects			
	No inform	nation available			
SECTION	I 13 DISP	OSAL CONSIDERATIO	NS		
13.1.		reatment methods	143		
13.1.1.	Product	:/Packaging disposal:			
	Submit Protecti		l person authorized by the Mir	nistry of Environme	ntal and Nature
13.1.2.	Waste c	odes/waste designatio	ns according to Law:		
	No info	rmation available			
13.1.3.	Waste t	reatment – relevant info	ormation:		
	No info	rmation available			
1214	C	diamanal valavantint			
13.1.4.	-	disposal – relevant info	f into the sewage system.		
	Traded I		· ····· une serrage system		
13.1.5.	Other d	isposal recommendatio	ons:		
	authoriz the pacl	zed by the ministry in c	's remains into the sewage syst harge. Do not dispose of the p s authorized by the ministry in	ackaging into the s	ewage system. Submit
13.1.6.	Relevan	t Community provision	s:		
	_				



SAFETY DATA SHEET

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

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Transporting/shipment by roac	I (ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (RID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADI	N)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea	(IMDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (l	CAO-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:	-



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Further information:	-

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

SECTION 16 Other information		
16.1.	Indication of changes:	-



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Trading name:	PHOSPHOMOLYBDIC ACID, 1% SOLUTION				
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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 used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classification		Classification procedure			
-		-			
16.5.	Relevant H statements (numb	er and full text)			
	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.			

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	ы	N	_	v	
Δ	N	N	_	×	-

Exposure scenario resulting to Chemical safety assessment

-