

MUCICARMINE KIT

The kit contains:

Ferri reagent, Weigert B Hematoxylin, Weigert A Mayer's mucicarmine Metanil yellow, solution



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

SECTI	ON 1 IDENTIFICATION	OF THE SUB	STANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	FERRI REAG	FERRI REAGENT, WEIGERT B		
	Chemical name:	-			
	Catalogue number:	FR-OT-X**			
1.2.	Relevant identified use	es of the subs	stance or mi	xture and uses advised against	
	Uses:	ses:		special staining kits.	
	Uses advised against:		Only the i	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: Bi		BioGnost Ltd.		
	Address:	N	Medjugorska 59, Zagreb		
	Telephone number:	+	-385 1 2409997		
	Fax no.: +3		+385 1 2404039		
	e-mail of competent p	erson: <u>n</u>	msds@biognost.hr		
	National contact:	-	-		
1.4.	Emergency telephone	number			
	National Protection an	d Rescue Dir	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 127	72/2008 (CLP)			
	Hazard class and category	v code:		Hazard statements*:		
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-sta	tements: see Se	ction 16			
2.2.	Classification according to EC Dire	ective Nr. 1272/2	2008 CLP)			
	Product identification:	FERRI REAGEN	T, 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	5:
	No known endocrine disrupting p	roperties
	Results of PBT and vPvB assessi PBT or a vPvB.	ment: According to the results of its assessment, this substance is not a

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS							
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
7782-61-8/ 616-509-1/ -	-	< 0.5%	ferric nitrate nonahydrate	Skin Irrit. 2; H315 Eye Irrit. 2; H319			
7647-01-0/ 231-595-7/ 017-002-00-2	01-2119484862- 27-xxxx	< 1%	hydrochloric acid, 37%	Skin Corr. 1B; H314 STOT SE 3; H335			

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



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	Following inhalation:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.
	Following skin contact:	Slight irritation. After short exposure, resorption effects are not likely. Long- term exposure may cause drying, cracking and tingling sensation of skin.
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.
	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.
4.3.	Indication of any immediate	e medical attention and special treatment needed
	-	

SECTIO	ON 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.	Remove sources of heat and ignition.			

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES					
6.1.	Personal precautions, protective ec	quipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment: Use personal protective equipment (see Section 8).					
	Accident prevention methods: Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.					
	Emergency procedures: Mark the area using proper signs.					
6.1.2.	For emergency responders:					
	Wear protective equipment (see Section 8).					



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6.2.	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3.	Methods and material for cor	ntainment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay harriers				
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	-				
6.4.	Reference to other sections					
	-					

SECTIO	ON 7 HANDLING AN STORAGE					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.				
	Measures to prevent aerosol and dust generati	on: Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				
	Other measures:	-				
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	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 contightly closed.					
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				



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

SECTION 8 EXPOSU	RE CON	TROLS/PER		PROTECTION				
8.1. Control para	meters							
Substance		CAS N			occupational exposure limit values/short term values		logical limit values	
			ppm	mg/m ³				
Hydrogen chloride 7647-01-			01-0	5/10	8/15		-	
Substance								
EC No: -		CAS No:	-					
DNEL								
				Industrial				
Route of	-	Acute		Acute	Chron	-	Chronic	
exposure:	effe	ect local	effe	ct systemic	effect lo	ocal	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
Critical physical parar	neters: s	olubility, fla	mmabilit	y, corrosivity:	-			
				Consumer				
Route of exposure:		Acute ect local	Acute effect systemic		Chronic effect local		Chronic effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		-		-	
Dermal	-		-		-		-	
PNEC								
Environmental protection target				PNEC	PNEC			
Fresh water				No infor	No information available			
Freshwater sediments	5			No infor	No information available			
Marine water				No infor	No information available			



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Marine se	dimonte				No infor	mation available			
Food chai						mation available			
	sewage treatment				mation available				
Soil (agric	sewage treatment				mation available				
Air					mation available				
8.2.	Exposure controls								
8.2.1.	Engine	eering measures							
	measu	ance/mixture relate ures to prevent expo j identified uses:		•	n well ventilated r ot eat, drink or sm	•	•		
	Struct expos	ural measures to pr ure:	No information available						
	-	nisational measures nt exposure:	Organization of work in order to reduce other worker's influence during work process.						
	Technical measures to prevent exposure:			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.					
8.2.2.	Persoi	nal protection equip	oment						
8.2.2.1.	Eye ar	nd face protection:		Safety g visor.	lasses tha	at stick to face (pre	eventing splashi	ng) (EN 166) or	
8.2.2.2.	Skin protection								
	Hand	protection:	ctive gloves must be according to the EU Directive 2016/425/EEC an ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min)16/425/EEC and		
	Other	skin protection:	Wear an			antistatic clothing made of natural fibers (such as cotton) with long (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respir	ratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped v filter for organic vapors, type "A" (boiling point >65°C) acording to 14387) used when concentration levels exceed GVI.						
8.2.2.4.	Therm	al hazards:	No inf	formation available					
8.2.3.	Enviro	nmental exposure	controls						
		ance/mixture relate ures to prevent expo	See Section 6						
	Struct expos	ural measures to pr ure:	event	Use mo	Use modern equipment.				
	-	nisational measures	to	Adapt t	the work process to the required working conditions of the				

workplace.

prevent exposure:

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Technical measures to prevent exposure:

See Section 6

	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	
•	Other information			

SECTIO	SECTION 10 STABILITY AND REACTIVITY				
10.1.	Reactivity:	See subsections 10.3 through 10.5.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
10.3.	Possibility of hazardous reactions:	With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.			
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.			
10.5.	Incompatible materials:	Aluminum.			



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10.6.

Hazardous decomposition products: No information available.

11.1. Informati	on on hazard classes as	defined in Regu	lation (EC) No 12	72/2008			
Acute tox							
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure	time	Results	
Oral exposure:	No information available	-	LD ₅₀	-		-	
Dermal exposure:	No information available	-	LD ₅₀	-		-	
Inhalation exposure:	No information available	-	LC ₅₀	-		-	
Specific t	arget organ toxicity – si	ingle exposure (S	TOT SE):				
	Specif	ic effects	Targe	t organ		Note	
Oral exposure:	No information	available	No informati	No information available -			
Dermal exposure:	No information	available	No informati	No information available		-	
Inhalation exposur	e: No information	available	No informati	on available	-		
	ry irritation: and corrosion	No infor	nation available				
IIIIdioII	Exposure time	Species	Evaluation	Method		Note	
Skin irritation:	-	rabbit	-			Note	
Eye irritation:	-	rabbit	-				
	1	1	i	I			
Sensitizat	ion						
Dermal exposure:	No information avail	lable					
Inhalation exposure:	No information avail	able					
Symptom	s related to the physica	al, chemical and t	oxicological chara	acteristics			
Oral exposure:	Swallowing may c sensation; higher In case of vomitin concentration ma	ause irritation of levels of concent g, aspiration cau	mucosa, tingling ration may cause ses coughing, diff	sensation in t nausea, abdo	minal pa	ain and vomiti	



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Dermal exposure	•			•	orption effects are sensation of skin.	not likely. Long	g-term exposure		
Inhalation exposi	ure:		-	ts of vapors in ache and nause	inadequately vent a.	ilated perimete	r may cause		
Eye exposure: Direct eye constraint Sensation.			ontact may ca	use slight to mo	oderate irritation,	lacrimation and	lburning		
Repeate	d dos	se toxicity (sub	acute, subchi	ronic, chronic)					
		Dose	Exposure time	Species	Method	Evaluation	Note		
Subacute oral		information lable	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 lable	No information available	No information available	No information available	No information available	-		
Chronic oral		information lable	No information available	No information available	No information available	No information available	-		
Chronic dermal	No information available		No information available	No information available	No information available	No information available	-		
Chronic No information inhalation available		No information available	No information available	No information available	No information available	-			
Specific	targe		y – repeated pecific effects	exposure (STO	TRE): Target orga	an	Note		
Subacute oral			tion available		o information avai		NOLC		



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Subacute dermal	No informati	on available	No	information availa	hlo	-			
Subacute inhalatio				information availa		_			
Subchronic oral	No informati			information availa		_			
Subchronic dermal				information availa		_			
Subchronic inhalat				information availa		_			
Chronic oral	No informati			information availa		_			
Chronic dermal	No informati			information availa		-			
Chronic inhalation	No informati			information availa		_			
CMR effe	cts (carcinogenicity,	mutagenicity, rep	oroductive	toxicitv)					
Carcinoge				animals did not inc	licate carcir	nogenic effects.			
	Mutagenicity <i>in-vitro</i> :			did not indicate m		5			
	Genotoxicity:		n available						
Mutageni	city <i>in-vivo</i> :	Current in vi	Current in vivo tests did not indicate mutagenic effects.						
Germ cell	mutagenicity:		No information available						
Reproduc	tive toxicity:	No toxicity on reproductive organs was determined in reproductive organs.							
Summary	of evaluation of the	e CMR properties:	-						
11.2 Information	on on other hazards	:							
11.2.1. Endocrine	disrupting properti	ies:							
The sub	ostance/mixture c	loes not							
	components consi locrine disrupting								
	to REACH Article								
Commissi	on Delegated regu	lation (EU)							
	0 or Commission	0							
	8/605 at levels of	r U.1% Or							
11.2.2. Other info									

SECTION 12 ECOLOG	GICAL INFOR	RMATION:				
12.1. Toxicity						
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note



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Fish		LC ₅₀	96 hou	irs	-		No ormation ailable	-		-	
Crustacea: EC ₅₀		48 hou	Irs	-		No ormation ailable	-		-		
Algae/aquatic	plants	IC ₅₀	8 days	-			No ormation ailable	-		-	
Microorganism	ns	LC ₅₀	72 hou	Irs	-	-		-		-	
Chronic toxicit	ÿ	Dose	Expos time		Species	м	lethod	Eval	uation		Note
Fish		LC ₅₀	96 hou	irs	No information available	-	rmation lable	No info availabl	rmation e	-	
Crustacea: EC ₅₀		48 hou	irs	No information available	No information available		No info availabl	rmation e	-		
Algae/aquatic plants IC ₅₀		IC ₅₀	72 hours		No information available		rmation lable	No info availabl	rmation e	-	
Other organis	ms	_	-		-	-		-		-	
12.2. Persis	stence a	and degradat	oility								
Abiot	ic degra	adation		-							
	-	gradation hal		Method			Evaluation				Note
Marine water		formation av			information avail						-
Fresh water		formation av			information avail		ole No information available			-	
Air		formation av			information avail						-
Soil	No inf	formation av	ailable	Nc	information avail	able	No infor	mation a	vailable		-
Biode	gradati	on									
% Degradatio	n	Time (days	5)		Method		Evaluat	ion		Note	9
No information No information available		nation	No i avail	nformation able	No information available		No information available				
12.3. Bioac	cumula	tive potentia									



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	Partition	coefficie	nt: n-octanc	l/wate	er (log Ko	ow):						
Value	e C	oncentra	tion p	H	°C	M	ethod		Evalua	ation		Note
-	No ava	inform ilable	nation -		-		No information available		No information available		-	
	Bioconce	entration	factor (BCF)									
V	alue		Species		I	Method	k		Evaluatio	on	1	lote
No info availabl		No availa	inform ble	ation	No info availab		on	No in availa	nformatio able	on	No inform available	ation
					1							
	Chronic	ecotoxici	ty									
	Value		Dose		oosure ime	Spe	ecies	Me	thod	Eval	uation	Note
Chronic	toxicity c	n fish	LC ₅₀	No information available		No infori availa	mation able	No inforr availa	mation able	No information available		-
	toxicity c ea (<i>Daphn</i>		EC ₅₀		information info		mation able	No inforr availa	mation able	No information available		-
			·			·						
12.4.	Mobility	in soil										
	Known c	or predict	ed distributi	on in e	environn	nental d	compart	ments:				
	No infor	mation av	vailable									
	Surface	ension:					1					
	Valu	9	°C	C	oncentra	ation		Meth	nod		Nc	ote
	Intermation Intermation				informa ailable	ation	No inf availat	information lable		-		
	Adsorpt	on / desc	orption									
Transpo	ort	A/D coe [.] Henry's c		lo	og Kow	E١	vaporatio	on rate	e ľ	Method		Note
		,										



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	1		1		1		1			
Soil-wat	ter No avail	information able	No information available	No information available	No info available		-			
Water-a	air No avail	information able	No information available	No information available	No info available		-			
Soil-air	No avail	information able	No information available	No information available	No info available		-			
	1									
12.5.	Results of	f PBT and vPvB asse	ssment							
	according	ance/mixture does g to REACH Article 5 n (EU) 2018/605 at l	7(f) or Commission	n Delegated regula [.]						
12.6.	Endocrine	e disrupting propert	ies							
			nce/mixture does not contain components considered to have endocrine disrupting properties							
	according	to REACH Article 5	REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission							
	Regulatio	n (EU) 2018/605 at	evels of 0.1% or h	igher.						
12.7.		verse effects								
	No inforn	nation available								
	1	OSAL CONSIDERA	TIONS							
13.1.	Waste t	reatment methods								
13.1.1.	Product	t/Packaging disposa	ŀ							
13.1.1.		for disposal to the l		rized by the Minist	ry of Envir	onmental a	and Nature			
	Protecti									
13.1.2.	Waste o	odes/waste designa	ations according to	o Law:						
	No info	rmation available								
13.1.3.	Wasta +	reatment – relevant	information:							
15.1.5.		rmation available	information.							
13.1.4.	Sewage	e disposal – relevant	information:							
	Waste r	must not be dispose	d of into the sewa	ge system.						
13.1.5.	Other d	lisposal recommend	ations:							



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authoriz the pac	zed by the ministry ir	nct's remains into the sewa n charge. Do not dispose o ors authorized by the mini	f the packaging int	to the sewage	system. Submit			
13.1.6. Relevan	t Community provisi	ons:						
-								
SECTION 14 TRAI	NSPORT INFORMAT	ION						
Transport	ing/shipment by roa	d (ADR)						
UN number:		Not subject to transpo	ort regulations.					
UN proper shippin	ig name:	-						
Transport hazard o	lass(es):	-						
Packing group:		-						
Environmentally h	azardous:	-						
Special precaution	s for user:	-						
Transport	ing/shipment by rail	(RID)						
UN number:		Not subject to transpo	ort regulations.					
UN proper shippin	ig name:	-						
Transport hazard o	class(es):	-						
Packing group:		-						
Environmentally ha	azardous:	-						
Special precaution	s for user:	-						
Inland wa	terway transport (AD	N)						
UN number:		Not subject to transpo	ort regulations.					
UN proper shippin	ig name:	-						
Transport hazard o	:lass(es):	-						
Packing group:		-	-					
Environmentally h	azardous:	-						
Special precaution	s for user:	-						
Transport	ing/shipment by sea	(IMDG)						
UN number:		Not subject to transpo	ort regulations.					
UN proper shippin	ig name:	-						
Transport hazard o	class(es):	-						
Packing group:		-						
Environmentally h	azardous:	-						
Special precaution	s for user:	-						



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

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Trading name:		FERRI REAGE	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 proc	duct is not subject to classification.

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorization and/or 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 793/9. and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; 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 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); 				



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Trading name:	FERRI REAGENT, WEIGERT B								
Product code:	FR-OT-X**	Revision date:	21 Dec 2022	Version:	5				
National	legislation:	Chemicals Act, Regulation of dangerous substances, Ord and on biological limit value classification of waste with Ordinance on writing Mater Substances Act	inance on occupates, Regulation on a waste catalog ar	tional exposure categories, typ nd list of hazard	e limit values es and dous waste,				
15.2. Chemica	l safety assessmer	nt							

None

.

SECTIO	ON 16 Other information		
16.1.	Indication of changes:	-	
16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative	
16.3.	Key literature references and source of data:		
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)	
Classifi	cation	Classification procedure	
-		-	
16.5.	Relevant H statements (numb	er and full text)	
	H: H314	Causes severe skin burns and eye damage.	
	H315	Causes skin irritation.	
	H319	Causes serious eye irritation.	
	H335	May cause respiratory irritation.	
16.6.	Training advice:	-	
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	



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



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

		substance/mix	xture and	of the company/undertaking		
1.1.	Product identifier					
	Trade name:	HEMATOXYLIN,	WEIGERT	4		
	Chemical name:	-				
	Catalogue number:	HEMA-OT-X**				
1.2. Relevant identified uses of the substance or mixture and uses advised against			e and uses advised against			
	Uses:		For use i	n special staining kits.		
	Uses advised against:		Only the	identified uses are advised.		
	Reason why uses advised	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet					
	Supplier:	BioGno	ioGnost Ltd.			
	Address:	Medju	djugorska 59, Zagreb			
	Telephone number:	+385 1	1 2409997			
	Telefax:	+385 1	1 2404039			
	e-mail of competent per	son: <u>msds@</u>	<u>Pbiognost.hr</u>			
	National contact:	-				
1.4.	Emergency telephone nu	ımber				
	National Protection and	Rescue Director	ate:	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 Reg	lation (EC) No 1272/2008 (CLP)	
	Hazard class and categ	ry code: Hazard statements*:	
	Flam. Liq. 2	H225	
	Skin. Sens. 1	H317	
	Muta. 2	H341	
	Canc. 2	H351	
2.1.2.	Additional information		
	-		
*For fu	ll text of Hazard- and EU Hazard-	atements: see Section 16	
2.2.	Label elements		
	Product identification:	HEMATOXYLIN, WEIGERT A	



Page 2 of 18 Trade name: **HEMATOXYLIN, WEIGERT A** 5 Product code: HEMA-OT-X** Date of compilation: 21 Dec 2022 Version: Identification number: -Authorisation number: -Hazard pictograms: GHS02 GHS07 GHS08 Signal word: Danger H225 Highly flammable liquid and vapor. H317 May cause an allergic skin reaction. Hazard statements: 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 Precautionary statement: 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. Compo	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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Trade name:	HEMATOXYLIN, WEIGERT A						
Product code:	HEMA-OT-X**	Date of co	mpilation:	21 Dec	2022	Version:	5
123-31-9/ 204-617-8/ 604-005-00-4	-	1- 3 %	hydroqu	uinone	Skin Eye Mut Can	te Tox. 4; H302 Sens. 1; H317 Dam. 1; H318 a. 2; H341 c. 2; H351 atic Acute 1; H4	400

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 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			

SECTIO	ON 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 substa	ance or mixture	
	Hazardous combustion products:	Incomplete combustion of the product.	
5.3.	Advice for firefighters		
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.		
5.4.	Additional information		
	-		

SECTIO	ON 6. Accidental release	measures			
6.1.	Personal precautions, pr	rotective equip	oment and emergency procedures		
6.1.1.	For non-emergency per	sonnel			
	Protective equipment:		When disposing of small quantities use protective clothing. When disposing of large quantities use self-contained open-circuit compressed air breathing apparatus or self-contained closed-circuit air breathing apparatus.		
	Accident prevention 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 symbols of flame and devices that cause sparks.		
	Emergency procedures:		Remove or neutralize all factors that may exacerbate the condition, use all allowed means of containing the situati use recommended means of personal protection.		condition, use all allowed means of containing the situation and
6.1.2.	For emergency respond	ers:			
	Self-contained open-circ dissipation (fireproof clo	•	ed air breathing apparatus, a set for protecting the body from heat		
6.2.	Environmental precaution	ons:			
	•	•	t further spillage of chemicals. Prevent environmental pollution by ne sewage system, surface water or groundwater.		
6.3.	Methods and material for	or containmer	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	nd, mineral adsorbents		
6.3.3.	Other information:	spills and po	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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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	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	า:	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. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Lochnical moacuroc and storado conditions.		ep in a well-ventilated place. Keep away from at and direct solar radiation.			
	Packaging materials:	Manufacturer's original packaging.				
	Poalliromonts for storado rooms and vossols.		Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment: must be resist.		rage must be made of hard material; floors e resistant to chemicals. There must be no hat directly leads into sewage system. Secure ventilation.			
	Further information on storage conditions:	-				
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				

SECTION 8. Exposure controls/personal protection							
8.1. Control parameters							
Substance	CAS No	No Occupational exposure limit values/short term values ppm mg/m ³		Biological limit values			
Ethanol	64-17-5	1000/-	1900/-	-			
Ethylene glycol	107-21-1	20/40	52/104	-			
Hydroquinone	123-31-9	-/0,5	-/-	-			



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Substance: -					
EC No: -	CAS No:	_			
DNEL		1			
		Ind	lustrial		
Route of exposure:	Acute effect local	Acuto effect sys		Chronic effect local	Chronic effect systemic
Oral	-	-		-	-
Inhalation	1900 mg/m ³ (ethanol)	-		35 mg/ kg (ethylene glycol)	380 mg/m ³ (ethanol)
Dermal	-	-		-	343 mg/kg (ethanol) 106 mg/kg (ethylene glycol)
Critical physical parar	neters: solubility, fla	mmability, cori	rosivity:		
Consumer					
Route of exposure:	Acute effect local	Acuto effect sys		Chronic effect local	Chronic effect systemic
Oral	Oral	-		-	-
Inhalation	950 mg/m ³ (ethanol)	-		7 mg/kg (ethylene glycol)	114 mg/m ³ (ethanol)
Dermal	-	-		-	206 mg/kg (ethanol) 53 mg/kg (ethylene glycol)
PNEC					
Environmental protec	tion target		PNEC		
Fresh water			0.96 mg/l (ethanol) 10 mg/l (ethylene glycol)		
Freshwater sediments	5		3.6 mg/kg (ethanol) 37 mg/kg (ethylene glycol)		
Marine water			0.79 mg/l (ethanol) 1 mg/l (ethylene glycol)		
Marine sediments		2.9 mg/kg (ethanol)			
Food chain				g (ethylene glycol) mg/kg kg (ethanol)	
				(ethanol)	
Microorganisms in se	wage treatment		-	g/l (ethylene glycol)	
Soil (agricultural)			-	'kg (ethanol) 'kg (ethylene glycol)	



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Air			no information available		
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture related measu prevent exposure during identifie		Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		No information available		
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		See Section 7.2		
8.2.2.	Personal protection equipment	nent			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN166) or visor in case of lowe levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection				
0.2.2.2	Hand protection:		tive gloves must be according to the EU Directive 425/EEC and standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min		
	Other skin protection:	such a spilling suitab	g everyday work use cotton clothing and suitable footwear, is 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) botwear 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:		apt the work process to the required working conditions of workplace.		
	Technical measures to prevent exposure:	See	e Section 6		



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

SECTIC	SECTION 10.: Stability and reactivity				
10.1.	Reactivity:	The product is stable under normal working and storage conditions.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).			
10.3.	Possibility of hazardous reactions:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.			
10.4.	Conditions to avoid:	High temperatures, ignition sources, open flame.			



10.6.

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Trade name:		HEMATOXYLIN, WEIGERT A						
Product code:	HEMA-OT-X**	Date of compilation:	21 Dec 2022	Version:	5			
10.5. Incompa	tible materials:	Oxidants, acio	ls, alkali metals.					

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

SECTION 11.1	Foxicological informa	ation							
11.1. Inform	mation on hazard class	es as define	d in Regul	ation (EC	C) No 12	272/200	08		
Acute	e toxicity:								
Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}			osure me		Results	
Oral:	No information available	rat	LD ₅₀		-		7.712	(ethanol) ylene glycol) droquinone)	
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 (etha	nol)	>8.000) mg/l (etha	nol)
	6		(07						
Speci	fic target organ toxicit		posure (ST	OT SE):				-	
	•	cific effects		Target organ			1	Note	
Oral:	No information			No information available			-		
Dermal:	No information	available	No information available			able	-		
Inhalation:	No information	available		No inf	ormatio	on avail	able	-	
Aspira	ation hazard:		No inform	nation av	vailable				
Irritat	ion and corrosion								
innac	Exposure	time	Species	Evalu	uation	Me	thod	٦	lote
Skin corrosion/irrita		-		-		-		No available	information
Serious eye damage/irritati	ion -	-		-		-		No available	information
Sensit	tization:								
Skin sensitizati	on: No information	available							
Respiratory sensitization:	No information	available							



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Trade name:		HEMATOXYLIN	N, WEIGERT A		
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Symptoms	s related to the physical, chemical and toxicological characteristics
Oral exposure:	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 skin.
Inhalation exposure:	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 cause discomfort, stinging sensation, conjunctival redness, corneal surface lesions.

	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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	:			IEMATOXYLIN, WEIGERT A					
Product coc	le: H	EMA-OT-X*	* Date of	f compilation:	21 Dec 202	22	Version:	5	
		information lable	No information available	No information available	No information available	No infor avail	mation able	-	
Spe	cific targe	t organ toxic	ity – repeated e	xposure (STOT	RE):				
			Specific effect	S	Target org	jan		Note	
Subacute oral No		No infor	mation available	e No	o information av	ailable	-		
Subacute dermal No info		No infor	mation available	e No	o information av	ailable	-		
Subacute inh			mation available		o information av		-		
Subchronic o	-		mation available		o information av		-		
Subchronic d			mation available		o information available		-		
			mation available		No information available				
			mation available		No information available				
Chronic dermal No information				e No	o information av	ailable	-		
Chronic inhal	lation	No infor	mation available	e No	o information av	ailable	-		
CMI	R effects (carcinogenic	mation available ity; mutagenicity	; reproductive	toxicity)				
CM Care	R effects (cinogenici	carcinogenic ty:		y; reproductive Suspected	toxicity) of causing cance				
CMI Card Mut	R effects (cinogenici tagenicity	carcinogenic ty:		r; reproductive Suspected No inform	toxicity) of causing cance ation available	er.			
CMI Caro Mut Gen	R effects (cinogenici tagenicity totoxicity:	carcinogenic ty: <i>in-vitro:</i>		/; reproductive Suspected No inform Suspected	toxicity) of causing cance	er.			
CMI Card Mut Gen Mut	R effects (cinogenici tagenicity totoxicity: tagenicity	carcinogenic ty: in-vitro: in-vivo:		y; reproductive Suspected No inform Suspected No inform	toxicity) of causing cance ation available of causing gene	er.			
CMI Card Mut Gen Mut Ger	R effects (cinogenici tagenicity totoxicity: tagenicity	carcinogenic ty: <i>in-vitro:</i> <i>in-vivo</i> : tagenicity:		y; reproductive Suspected No inform Suspected No inform No inform	toxicity) of causing cance ation available of causing gene ation available	er.			
CMI Card Mut Gen Mut Gen Rep	R effects (cinogenici tagenicity otoxicity: tagenicity m cell mu roductive	carcinogenic ty: <i>in-vitro:</i> <i>in-vivo</i> : tagenicity: toxicity:		/; reproductive Suspected No inform Suspected No inform No inform	toxicity) of causing cance ation available of causing gene ation available ation available	er.			
CMI Caro Mut Gen Mut Gen Rep Sum proj	R effects (cinogenicit tagenicity tagenicity tagenicity m cell mu roductive nmary o perties:	carcinogenic ty: <i>in-vitro:</i> <i>in-vivo</i> : tagenicity: toxicity:	ity; mutagenicity	/; reproductive Suspected No inform Suspected No inform No inform	toxicity) of causing cance ation available of causing gene ation available ation available	er.			
CMI Card Mut Gen Mut Ger Rep Sum proj	R effects (cinogenicity tagenicity tagenicity m cell mu roductive nmary o perties:	carcinogenic ty: <i>in-vitro:</i> <i>in-vivo</i> : tagenicity: toxicity: f evaluatior	ity; mutagenicity n of the CN rds:	/; reproductive Suspected No inform Suspected No inform No inform	toxicity) of causing cance ation available of causing gene ation available ation available	er.			
CMI Card Mut Gen Mut Gen Mut Gen Nut 11.2. Info 11.2. Info 11.2.1. End	R effects (cinogenicity tagenicity tagenicity tagenicity m cell mu roductive nmary o perties:	carcinogenic ty: <i>in-vitro:</i> <i>in-vivo</i> : tagenicity: toxicity: f evaluation f evaluation	ity; mutagenicity n of the CN rds:	y; reproductive Suspected No inform Suspected No inform No inform No inform	toxicity) of causing cance ation available of causing gene ation available ation available	er.			

SECTIO	N 12. Ecological information:
12.1.	Toxicity



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

Acute (short-tern toxicity	n)	Dose	Exposure time	Species	Method	Evaluation	Note
Fish		LC ₅₀	96 hours	Fish	No informatior available	8.140 mg/l (ethanol) 72.860 mg/l (ethylene glycol) 0.638 mh/l (hydroquinone)	-
Crustacea:	ustacea: EC ₅₀ 48 hours		water flea	No informatior 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 informatior available	5.000 mg/l (ethanol) 6.500-13.000 mg/l (ethylene glycol) 0.33 mg/l (hydroquinone)	-
Microorganisms		-	-	No information available	No informatior available	No information available	-
Chronic (long-ter toxicity	rm)	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 pla	ants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Microorganisms		-	-	-	-	-	-
12.2. Persister	nce a	nd degradab	ility				
Abiotic of							
		egradation h	alf-lives	Metho	bo	Evaluation	Note
Marine water	No ir	formation a	vailable	No information	available	No information available	-
Fresh water	No ir	formation av	vailable	No information	available	No information available	-
Air	No ir	formation av	vailable	No information	available	No information available	-
Soil	No ir	formation a	vailable	No information	available	No information available	-



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

	Biodegra	dation										
% Deg	gradation	Tim	ne (days)	١	Method	Evaluation			Note		
_		_		_			-			-		
12.3.	Bioaccum											
				anol/wate								
Valu	ue Co	oncentrati	ion	рН	°C	Method		Evaluatio	on	No	ote	
-	-			-	-	-	-			-		
	Bioconce	ntration f										
	Value		Specie		Method			valuation		Not		
No info availab	ormation	No info availab			No information available			No information available		No informati available	on	
avallaŭ	ne	avaliau	le		available		avalidDle					
	Chronic e		,									
	Chronic e	cotoxicity	<i>y</i>	Evo	osure							
	Value		Dose		me	Species	N	1ethod	I	Evaluation	Note	
				No		No	No		No	information		
Chroni	c toxicity o	n fish	LC_{50}	inform		information	1	rmation	+	information lable	-	
				availal	ole	available		lable				
	c toxicity o		EC ₅₀	No inform	nation	No information	No	rmation		information	_	
crustad	cea (Daphni	a)	LC30	availal		available		lable	avai	lable		
											1	
12.4.	Mobility	in soil										
	Known o	r predicte	d distrik	oution in e	environr	nental compar	tments:					
	No inforr	mation av	ailable									
	Surface to	ension:										
	Value		°C	6	oncentr	ation	Meth	od		Note		



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Trade r	name	•	HEMATOXYLIN, WEIGERT A						
Produc			IEMA-OT-X**	Date of comp	-	c 2022 Version	: 5		
				I I					
		rmation lable	No information available	No information available					
	Ads	orption /	desorption	1					
Transpo	A/D coefficient Henry's constant		log Kow	Evaporation rate	Method	Note			
Soil-wa	ter	No information available		No information available	No information available	No information available	-		
Water-a	air	No availabl	information e	No information available	No information available	No information available	-		
Soil-air		No availabl	information e	No information available	No information available	No information available	-		
12.5.	Res	ults of PB	T and vPvB asses	sment					
				•		ther persistent, bioac els of 0.1% or higher.	cumulative and		
12.6.	End	ocrine dis	srupting properti	es					
	ассо	ording to	REACH Article 57	•	Delegated regulatio	have endocrine disru n (EU) 2017/2100 or			
12.7.	Oth	er advers	e effects						
	No	adverse e	effects are expect	ed.					
SECTIO	N 13	. Disposa	al considerations	5					
13.1.	W	aste trea	tment methods						
13.1.1.	Dr	oduct/Pa	ckaging disposal						
13.1.1.	Su		disposal to the le		ed by the Ministry	of Environmental and	l Nature		
13.1.2.	W	aste code	es/waste designa	tions according to L	aw:				
	N	o informa	ation available						



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Trade name:		HEMATOXYLI	N, WEIGERT A								
Product code:	HEMA-OT-X**	Date of compilation:	21 Dec 2022	Version:	5						
13.1.3. Waste t	reatment – relevant i	nformation									
	rmation available	niormation.									
13.1.4. Sewage	Sewage disposal – relevant information:										
Waste r	Waste must not be disposed of into the sewage system.										
13.1.5. Other c	licnocal recommenda	tions									
	Other disposal recommendations: Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors										
		-	-								
the pac	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.										
	nt Community provision	ons:									
_											
SECTION 14. Trar	nsport information										
Transport	ting/shipment by road	d (ADR)									
UN number:		1170									
UN proper shippir	ng name:	Ethanol solution									
Transport hazard o	class(es):	3									
Packing group:		I									
Environmental haz	ards:	No information available									
Special precaution	is for user:	-									
Transport	ting/shipment by rail	(RID)									
UN number:		1170									
UN proper shippir	ng name:	Ethanol solution									
Transport hazard o	class(es):	3									
Packing group:		II									
Environmental haz	ards:	No information available									
Special precaution	is for user:	-									
Transport	ting/shipment by inla	nd waterways (ADN)									
UN number:		1170									
UN proper shippir	ng name:	Ethanol solution									
Transport hazard o	class(es):	3									
Packing group:		II									
Environmental haz	ards:	No information available									
Special precaution	s for user:	-									



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

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

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



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					Page 17		
Trade name: Product code:		HEMATOXYLIN, WEIGERT A					
		HEMA-OT-X**	Date of compilation:	21 Dec 2022	Version:	5	
	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 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				
	Information according 1999/13/EC about limitation of emissions of volatile organic compo- guideline)					ds (VOC-	
	National l	egislation:	Chemicals Act, Regulation on dangerous substances, Ordina and on biological limit values classification of waste with a v Transport of Hazardous Subst	ance on occupatior , Regulation on cate waste catalog and l	nal exposure lin egories, types a	nit values and	
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 BIOGNOST[®] According to Regulation (EC) No. 1907/2006 amended by Regulation (EU) No. 2020/878

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

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

ANNEX: EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT



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Trade name:	MAYER'S MUCICARMINE				
Product code:	MMU-OT-X**	Date of compilation:	14 Nov 2022	Version:	4

1.1.	Product identifier						
	Trade name:	MAYER'S MU	JCICARMI	NE			
	Chemical name:	-					
	Catalogue number:	MMU-OT-X**					
1.2.	Relevant identified	uses of the sul	bstance or	mixture ar	nd uses advised against		
	Uses:	Jses:			ith Mucicarmine kit.		
	Uses advised again	st:	(dentified uses are advised.		
	Reason why uses a	es advised against:		The product is intended for use only as an <i>in vitro</i> diagnost 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 supp	Details of the supplier of the safety data sheet					
	Supplier:		BioGn	BioGnost Ltd.			
	Address:		Medjug		ugorska 59, Zagreb		
	Telephone number	Telephone number:		+385 1 2409997			
	Telefax:		+385	85 1 2404039			
	E-mail of competer	nt person:	<u>msds(</u>	<u>@biognost</u>	<u>.hr</u>		
	National contact:		-				
1.4.	Emergency telepho	ne numbers					
	National Protectior	and Rescue D	irectorate:		112		
	Medical informatio	n:			+385 1 2348 342		

SECTI	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 statement*:					
	Flam. Liq. 3		H226			
2.1.2.	Additional information					
	-					
*For fu	Ill text of Hazard- and EU Hazard-	statements: see	e Section 16.			
2.2.	Label elements					
	Product identification:	CICARMINE				
	Identification number:	-				



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Trade name:	MAYER'S MUCICARMINE					
Product code:	MMU-OT-X**	Date of compilation:	14 Nov 2022	Version:	4	

	Authorisation number:	-		
	Hazard pictograms:	GHS02		
	Signal word:	Danger		
	Warning statement:	H226 Flammable liquid and vapor.		
	Precautionary statement:	 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. 		
	Supplemental 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 PBT or a vPvB. 			

SECTION 3. Co	SECTION 3. Composition/information on ingredients								
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)					
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	40 - 60 %	ethanol	Flam. Liq. 2; H225					

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



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Trade	e name:								
			MAYER'S MUCICARMINE						
Product code: MMU-OT-X**		MMU-OT-X**	Date of compilation:	14 Nov 2022	Version:	4			
	Following eye contact:Following swallowing:Self-protection of the first aider		Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.						
			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.						
			-						
4.2.	 Most important symptoms and e Following inhalation: Following skin contact: Following eye contact: Following swallowing: 		effects, both acute and delayed						
			Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.						
			 Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking. Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain. 						
			Depending on concentration and stinging and digestive mucus dam vomiting.	•					
4.3.	Indication of	of any immediate med	ical attention and special treatment	needed					
	No informa	ition available							

SECT	SECTION 5. Firefighting measures					
5.1.	Extinguishing media					
	Suitable extinguishing media: Small fire - water spray, dry powder, alcohol-resistant foam, CO2 Large fire - water spray or alcohol-resistant foam					
	Unsuitable extinguishing media: Water with full jet					
5.2.	Special hazards arising from the substance or mixture					
	Hazardous byproducts of fire:	Incomplete combustion of the product.				
5.3.	Advice for firefighters					
	Stay in danger area only with self-contained open-circuit compressed air breathing apparatus and a set for protecting the body from heat dissipation (fireproof clothing).					
5.4.	Additional information					
	Cool endangered receptacles v not contaminate the environm	vith water spray. Collect contaminated fire fighting water separately. Do ent with extinguishing media.				

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective	e equipment and emergency procedures			
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			



					P	Page 4 of 17	7	
Trade	name:			MAYER'S MUCICARMINE				
Produ	ct code:	MMU-OT-X**		Date of compilation:	14 Nov 2022	Version:	4	
	Accident prevention methods: Emergency procedures: For emergency responders:		withou contac	Evacuate members of all non-essential personnel and those member without protective equipment. Avoid breathing vapors and avo contact with skin and eyes. Do not smoke. Keep away from ignitic sources.			avoid	
			Mark	the area using proper signs.				
6.1.2.								
		ained open-circuit con pation (fireproof cloth	npressed air breathing apparatus, a set for protecting the body from ning).					
6.2.	Environm	Environmental precautions:						
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental not allowing the chemicals to enter the sewage system, surface water or groundwater.					ntal pollutio	n by	
6.3.	Methods	and materials for cont	tainmen	it and cleaning up				
6.3.1.	J	covering of drains; procedures:	Sand _l	protective barrier or barriers	or barriers made of similar materials			
6.3.2.	Cleaning	up:	Sawdust, sand, mineral adsorbents					
6.3.3.	.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). Do not use incompatible materials (see Section 10).			I		
6.4.	Reference	e to other sections	1					
	See Section	on 7 for information o	n safe h	andling.				
				-				

See Section 8 for information of	on personal j	protection ec	juipment.

See Section 13 for disposal information.

SECTIO	ION 7. Handling and storage							
7.1.	Precautions for safe handling	Precautions for safe handling						
7.1.1.	Protection measures							
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.						
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.						
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.						
	Other measures:	Protect against electrostatic charges.						
7.1.2.	Advice on general occupational hygiene:							
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.							
7.2.	Conditions for safe storage, including any inc	ompatibilities						



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Trade	name:		MAYE	R'S MUCICAR	MINE				
Produ	ict code:	MMU-OT-X**	Date of compilation: 14 Nov 2022 Version:						
	Technica conditior	l measures and storage ns:	ventilat	ed storage room	nd upright set contai is at temperatures ra : and direct sunlight.				
	Packagin	g materials:	Manufa	cturer's original	packaging.				
	Requiren vessels:	Requirements for storage rooms and vessels:		Keep away from food and drink. Keep the containers tightly closed.					
	Advices f	or storage equipment:	resistan	t to chemicals. T	ade of hard material; here must be no dra m. Secure proper ver	in that direct			
	Further in conditior	nformation on storage ns:	do not	use empty conta	d material in the stor iners for storing othe ible materials (see Se	er chemicals.			
7.3.	Specific e	end use(s)							
	Recomm	endations:		-					
	Industria	sector specific solutions:		-					

SECTION 8. Exposure	controls/person	al protecti	on					
8.1. Control para	meters							
Substance	CAS No				exposure limit term values	Biological limit values		
			рр	m	mg/m ³			
Ethanol	64-17-5		100	0/-	1900/-	No information available		
Substance: -								
EC No: - CAS No: -								
DNEL								
			Industri	al				
Route of exposure:	Acute Acu		te	Chronic		Chronic		
Route of exposure.	effect local	effect sys	stemic	e	ffect local	effect systemic		
Oral	-	-		-		-		
Inhalation	1900 mg/m ³ (ethanol)	-		-		380 mg/m ³ (ethanol)		
Dermal	-	-		I		343 mg/kg (ethanol)		
Critical physical param	eters: solubility, fl	ammability,	, corrosiv	vity:	-			
			Consum	er				
Route of exposure:	Acute	Acut	te		Chronic	Chronic		
Route of exposure:	effect local	effect sys	stemic	e	ffect local	effect systemic		
Oral	-	-		-		87 mg/kg bw/day (ethanol)		



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Trade n	ame [.]			MAYE	R'S MUCICARI	MINE		age 6 of 17
Product		MMU-OT-X**			compilation:		Nov 2022	Version: 4
Tiodaet				Dute of t				Version.
Inhalatio	'n	950 mg/m ³ (ethanol)	-		-		114 mg/m	³ (ethanol)
Dermal		-	-		-		206 mg/kg	ı (ethanol)
PNEC								
Environn	nental pro	tection target		PNEC				
Fresh wa	iter			0.96 mg/l (ethanol)			
Freshwat	ter sedime	ents		3.6 mg/kg	(ethanol)			
Marine v	vater			0.79 mg/l (ethanol)			
Marine s	ediments			2.9 mg/kg	(ethanol)			
Food cha	ain			380-720 m	g/kg (ethanol)			
Microorg	ganisms in	sewage treatment		580 mg/l (e	ethanol)			
Soil (agricultural)			0.63 mg/kg	g (ethanol)				
Air			no information available					
8.2.	Exposur	e controls						
8.2.1.	Approp	riate engineering co	ntrols					
	measure	ce/mixture related es to prevent exposu dentified uses:	re	Do not eat, o protective eo	drink or smoke in quipment.	the wo	rkspace. Use	e personal
	Structur exposur	al measures to preve e:	ent	No information available Organization of work in order to reduce other worker's influence during work process.				
	-	ational measures to exposure:						orker's influence
	Technic exposur	al measures to preve e:	ent	See Section	7.2			
8.2.2.	Persona	l protection equipm	ent					
8.2.2.1.	Eye and	face protection:	of c	afety glasses that stick to face (EN 166) or visor in case of lower level f concentration in air; protective gas mask that covers the entire fac n case of higher levels of concentration in air.				
8.2.2.2.	Skin pro	otection						
				otective gloves must be according to the EU Directive 2016/425/EEC d standard EN 374.				ve 2016/425/EEC
	Hand p	rotection:			iterial: nitrile rubl			
				Glove thickness: ≥0.50 mm				
				Break thr	ough time: >480	min		



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T 1	ame.					age / 01 17			
Irade n	rade name: MAYER'S MUCICARMIN				MINE				
Product code: MMU-OT-X**		Date of co	ompilation:	14 Nov 2022	Version:	4			
	Other sk	in protection:	footwear, such as entire foot. In case impermeable mate	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.	Respirat	ory protection:	a filter for organic	e mask (EN 136) or half mask (EN 140) equipped wit vapors, type "A" (boiling point >65°C) acording to hen concentration levels exceed GVI.					
8.2.2.4.	Thermal	hazards:	No information av	ailable	able				
8.2.3.	Environr	mental exposure co	ntrols						
	Substance/mixture related measures to prevent exposure: Structural measures to prevent exposure:			Vent See Section 6					
				Use modern equipment.					
	Organisational measures to prevent exposure:		prevent exposure:	•	ork process to the re f the workplace.	equired worki	ng		
	Technical measures to prevent exposure:		ent exposure:	See Section 6					

Information on basic physical and	l chemical properties	
	Value	Method
Physical state:	liquid	no information available
Colour:	red	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:	24 °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



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Trade name:Product code:MMU-OT-X**			MAYER'S MUCICARMINE						
		MMU-OT-X**	Date of compilation:	14 Nov 2022	Version: 4				
	Density a	and/or relative density:	no information available	no information available					
	Relative	vapour density:	no information available	no information av	vailable				
	Particle c	characteristics:	no information available	no information av	vailable				
9.2.	Other inf	formation							
	-								

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.				
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:	Avoid heat, sparks, open flames and other ignition sources.				
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.				
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.				

11.1. Inform	nation on hazard c	lasses as defined	in Regulation (EC	.) No 1272/2008		
Acute	toxicity:					
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ of ATE _{mixture}	Exposure time		Results
Oral:	-	rat	LD ₅₀	-	7.060	mg/kg (ethanol)
Dermal:	-	rabbit	LD ₅₀	-	>20.000 mg/kg (etha	
Inhalation:	- rat		LC ₅₀	4 h (ethanol)	>8.000 mg/l (ethanol)	
Specific targe	et organ toxicity -	single exposure (Specific effects	STOT-SE):	Target orgar	1	Note
Oral:	No information	on available	No information ava		ilable	-
Dermal:	No information	on available	No information ava		ilable	-
Inhalation: No information available		No information		ilable	-	
						,
	hazard:		No information			



Subacute

inhalation

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information

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information

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information

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

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Trade name:	MAYER'S MUCICARMINE							
Product code:	MMU-OT-X**	Date of compilation:	14 Nov 2022	Version: 4				

		Exposure tim	ne Species	s	Evaluation	Metho	d Note
Skin corrosion/irritat	tion	No information available		mation I	No information available	No information available	
Serious eye damage/irritatio	on	No information available	No infor available		No information available	No information available	n -
Sensitization							
Skin sensitizatio		No informati	on available				
Respiratory sensitization:		No informati	on available				
Symptoms re	elated	to the physical,	chemical and tox	icological	characteristics		
Oral exposure:		sensation; high In case of vom	er levels of conce	ntration m nuses coug	n, tingling sensation nay cause nausea, a ghing, difficult brea	bdominal pain ar	nd vomiting.
Dermal exposu	re:	-	. After short exposing, cracking and t		ption effects are no ensation of skin.	ot likely. Long-ter	m exposure
Inhalation exposure:			rge amounts of va zing, headache ar		adequately ventilat	ted perimeter mag	y cause
Eye exposure:		Direct eye cont sensation.	tact may cause slig	ght to moo	derate irritation, lac	rimation and bur	ning
Depented do		isity (subscuts	subchronic, chron				
Repeated do		-	Exposure time	Specie	s Method	Evaluation	Note
Subacute oral		No		No informat on available	ti No information	No information available	-
Subacute dermal		ormation No ilable ava	information ilable	No informat on available	information	No information available	_
Subacute	No	No	information	No	ti No	No	



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Trade name:		MAYER'S MUCICARMINE							
Product code:	MMU-OT-X**	Date of compilation:	14 Nov 2022	Version:	4				

Subchronic oral	No information available	No information available	No informati on available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No informati on available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No informati on available	No information available	No information available	-
Chronic oral	No information available	No information available	No informati on available	No information available	No information available	-
Chronic dermal	No information available	No information available	No informati on available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No informati on 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	-
Chronic inhalation	No information available	No information available	-



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Trade r	name:		MAY	ER'S MUCICARI	MINE					
Produc	t code:	MMU-OT-X**	Date of	Date of compilation: 14 Nov 2022 Version:						
Geno	Genotoxicity:			No information available						
Mutagenicity <i>in-vivo</i> :				No information av						
Germ	n cell muta	genicity:	No information available							
Repr	oductive to	oxicity:		No information av	vailable					
	-	aluation of the CMR prop	perties.	No information av						
11.2.		ion on other hazards:								
11.2.1.	Endocrin	e disrupting properties:		1						
		n endocrine disrupting man health.	properties that							
44.0.0	Other inf	ormations:								
11.2.2.	Other in	ormations.								

SECTION 12. Ecological information									
12.1. Toxicity									
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)	-			
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-			
Algae/aquatic plants:	IC ₅₀	72 hours	algae	No information available	5.000 mg/l (ethanol)	-			
Other organisms	-	-	-	-	-	-			
Chronic (long-term) toxicity	Doza	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	-			



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Trade name:				М	AYER'S MUC	CICARMI	NE		<u> </u>	
Product cod	de:	MMU-OT->	(**	Date	Date of compilation:		14 Nov	2022	Version:	4
Other organisms	-	-		-	-		-		-	
12.2. Per										
		e and degrad	adiiity							
		egradation ha	lf-lives	N	1ethod	Fva	luation		Note	
Marine water		nformation ava		No infor available	mation	No info availabl	rmation			
Fresh water	No ir	nformation ava	ilable	No infor available		No info availabl		-		
Air	No ir	nformation ava	ilable	No infor available		No info availabl		-		
Soil	No ir	nformation ava	ilable	No infor available		No info availabl		-		
Biodegrac	lation									
% Degradat	ion	Time (day	/s)	Me	thod	Eva	luation		Note	
-	-			-		-		-		
10.0	- .	1.1 .								
		umulative pot		-i K)					
		ol-water partit		-			Evelveti		Nata	
Value	-	Shcentration	рН -	- C	Method		Evaluatio	<u></u>	Note	
-	-		-	-	-	-		-		
Biocor	ncentra	tion Factor (B	CF)							
Value		Specie	S		Method		Evaluati	on	Note	
No information available	N	o information	available	No infor	mation availabl	D	informat ailable	on	-	
		·• .								
Chronic e Value	cotoxic	Dose	Evees	sure time	Species	Metho	od r	valuation	Not	
Chronic toxic	city	LC ₅₀	No infor		No	No	No		-	



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Trade r	name.				МА	YER'S MUC		INE		ge 13 of 1	
	t code:	MMU-(OT V**	г					Nov 2022	Version:	4
Produc	it coue.		01-7	L	Jale	of compilation	511.	14	100 2022	version.	4
on fish			avai	able		information available			information available		
on crust	Chronic toxicity on crustacea EC ₅₀ No informa (Daphnia)				No information available	No inform availab		No information available	-		
12.4.	Mobility	' in soil									
			d distributi	ion in enviro	nmer	ntal compartm	nents:				
	No info	mation ava	ailable								
	Surface	tension:									
	Va	alue		°C	Co	oncentration	Me	thod		Note	
			No i available	nformation		information ilable	No inforn availa		-		
Transpo	No	A/D coeffi Henry's cor		log Kov No inform		Evaporatic No informa			Method	Note	2
Soil-Wa	tor	lable	ormation	available	ation	available	lion	availa		-	
Water-A	Air No avai	inf lable	ormation	No inform available			tion	No ir availa	formation able	-	
Soil-Air	No avai	inf lable	ormation	No inform available	ation	ation No information No inf available available		formation able	-		
12.5.	Results	of PBT and	vPvB asse	ssment							
	Based o	n available	data, the J	product doe	s not	contain any P	BT or vP	vB sub	stances.		
12.6.	Endocri	ne disruptir	ng propert	ies							
	Based o	n available	data, does	s not contair	n endo	ocrine disrupt	ors.				
12.7.	Other ad	dverse effe	cts								
	No adve	erse effects	are expec	ted.							
SECTIO	N 13 Die	posal cons	ideration								
13.1.		reatment m		•							
13.1.	waste ti	cathent II	lethous								



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

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Trade name:		MAYER'S MUCICARMINE						
Product code:	MMU-OT-X**	Date of compilation:	14 Nov 2022	Version:	4			

13.1.1.	Product/Packaging disposal:				
	Submit for disposal to the lega Protection.	l person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste designatio	ns according to Low:			
	Packaging that contains residu	al hazardous substances or is contaminated with hazardous substances			
13.1.3.	Waste treatment – relevant info	ormation:			
	No information available				
13.1.4.	Sewage disposal – relevant info	ormation:			
	Waste must not be disposed o	f into the sewage system.			
13.1.5.	Other disposal recommendation	ons:			
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.				
13.1.6.	Relevant Community provision	s:			
	Disposal must be made accord	ing to official regulations.			
SECTION	14. Transport information				
Tran	sporting/shipment by road (ADF	3)			
UN numb	per	1170			
UN prope	er shipping name:	Ethanol solution			
Transpor	t hazard class(es):	3			
Packing g	group:	Ш			
Environm	iental hazards:	No information available			
Special p	recautions for user:	-			
Tran	sporting/shipment by rail (RID)				
UN numb	per:	1170			
UN prope	er shipping name:	Ethanol solution			
Transpor	t hazard class(es):	3			
Packing g	group:	Ш			
Environm	iental hazards:	No information available			
Special p	recautions for user:	-			



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Trade name:		MAYER'S MUCICARMINE					
Product code:	MMU-OT-X**	Date of compilation:	14 Nov 2022	Version:	4		

Transporting/shipment by inland wa	terways (ADN)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	Ш
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by sea (IMDG	5)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	Ш
Environmental hazards:	No information available
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	-
Transporting/shipment by air (ICAO-	TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	Ш
Environmental hazards:	No information available
Special precautions for user:	-
Further	

SECTIO	N 15. Regulatory information	n
15.1.	Safety, health and environme	ntal regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorisation and/or restriction	ons on use
	Authorisations:	-
	Restrictions:	-



Trade	Trade name:			MAYER'S MUCICARMINE							
Produ	ct code:	e: MMU-OT-X**		Date of compilation: 14 Nov 2022 Version							
	Other EU regulations:		18 Res am No Dir 93/ Dir 200 of pro Cou safu Reg 16 mix am	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 (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Counce 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 Apr 2004 on the limitation of emissions of volatile organic compounds due to the us 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 the council of the market and use of the terropean terrop							
	Informati guideline	-	1999/13/E	C about limitation of emissions o	f volatile organic cor	npounds (VOC-					
	dans National legislation: biolo wast			s Act, Regulation on classification s substances, Ordinance on occu limit values, Regulation on categ h a waste catalog and list of haza afety data sheet, Transport of Ha	pational exposure lir gories, types and clas irdous waste, Ordina	nit values and on ssification of nce on writing					
15.2.	Chemical	safety assess	ment								
	None				·						

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



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Trade name:				MAYER'S MUCICARMINE		
Product code: MMU-OT		-X** Da	te of compilation: 14 Nov 2022 Version: 4			
16.2.	Abbreviations and acronyms:		onyms:	 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 lit	erature reference	es and source of data	r		
16.4.		ication and proc 2008 (CLP)	edure used to derive	the classification for mixture according to Regulation (EC)		
Classific	cation		Classification proce	Classification procedure		
-			-			
16.5.	Releva	int H statements	(number and full tex	rt)		
	H:	225 226	Highly flammable liquid and vapor. Flammable liquid and vapour.			
16.6.	Trainir	ng advice:	-			
16.7.	Further information: We are not responsible		product) We are not respon instructions for use	ct code marks different volumes (different packaging of the sible for consequences in case of failure to comply with or improper use of the product described in this material		

ANNEX: Exposure scenario resulting to Chemical safety assessment

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Trading name:	METANIL YELLOW, SOLUTION				
Product code:	MY-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

1.1	Product identifier				
	Trading name:	METANIL YELLOW, SOLUTION			
	Chemical name:	-			
	Catalogue number:	MY-OT-X**			
1.2	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		For use	with Mucicarmine kit.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:	Supplier:		BioGnost Ltd.	
	Address:		Medjugo	orska 59, Zagreb	
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent	person:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection a	nd Rescue Dire	ctorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regi	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and catego	ory code:		Hazard statements*:	
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	METANIL YELLC	W, SOLUTION		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



			P	age 2 of 17	
Trading name:		METANIL YELLOW,	SOLUTION		
Product code:	MY-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	rties:
	No known endocrine disrupti	ng properties
	Results of PBT and vPvB ass PBT or a vPvB.	essment: According to the results of its assessment, this substance is not a

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

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



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Trading name:	METANIL YELLOW, SOLUTION						
Product code:	MY-OT-X**	Date of compilation:	21 Dec 2022	Version:	5		
	·	·					

	Following skin contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
	Following eye contact:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
4.3	Indication of any immediate medical attention and special treatment needed		
	-		

SECTI	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	water spray, dry powder, CO ₂ or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	no information available			
5.3	Advice for firefighters				
	Use a self-contained open-circuit c	ompressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.				

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



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Trading name:		METANIL YELLOW,	SOLUTION		
Product code: M	1Y-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

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

SECTIO	ON 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generatio	n:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:					
	Do not eat, drink or smoke in the workspace. Th	oroughly was	sh hands after work and before eating.			
7.2	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.			
	Packaging materials:	Manufactu	nufacturer's original packaging.			
	Requirements for storage rooms and vessels: Keep tight		/ from food and drink. Keep the containers sed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drai that directly leads into sewage system. Secure proper ventilation.				



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Trading name:					
Product code:	MY-OT-X**	Date of compilation:	21 Dec 2022	Version:	5

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

SECTION 8. Expos	ure contro	ols/perso	onal pr	otect	tion				
8.1 Control pa	arameters								
Substance		CA				cupational exposure limit alues/short term values			Biological limit values
					р	pm	mg/m ³		
-			-			-	-	-	
	:								
Substance name:	-	1		1			1		
EC No:	-	CAS No	:	-					_
DNEL									
					Ind	ustrial			
Route of	Αςι			Acut			Chronic		Chronic
exposure:	effect	local	effe	ct sys	temic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-				-		
Critical physical pa	rameters: s	olubility,	flamm	ability			-		
			1		Con	sumer			
Route of		cute		Acut			Chronic		Chronic
exposure:	effec	t local	effe	ct sys	stemic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
PNEC									
Environmental pro-	tection tar	get				PNEC			
Fresh water						no information available			
Freshwater sediments					no information available				
Marine water						no inform	nation available		
Marine sediments						no inform	nation available		



Tradian			N453			age 6 of 17	
Trading				TANIL YELLOW,		•	_
Product	code:	MY-OT-X**	Date	of compilation:	21 Dec 2022	Version:	5
Food cha	in			no information a	vailable		
Microorg	janisms in	sewage treatment		no information a	vailable		
Soil (agricultural)				no information a	vailable		
Air				no information a	vailable		
8.2	Expos	ure controls					
8.2.1.	· · ·	priate engineering contro	ols				
	Substance/mixture related measures to prevent exposure during identified uses: Structural measures to prevent exposure:				in well ventilated ro ment. Do not eat, dr	•	
				In accordance with Section 7.			
	Orgar expos	nisational measures to pre ure:	Organization of work in order to reduce other worker's influence during work process.				
Technical measures to prevent		exposure:	Secure proper workspace ventilation in order to keep exposure: concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.				
8.2.2.	Perso	nal protection equipment		1			
8.2.2.1.	Eye ar	nd face protection:	levels o	of concentration in	o face (EN 166) or v air; protective gas i ner levels of concent	mask that covers	
8.2.2.2.	Skin p	protection					
	Hand	protection:	•	0	0.40 mm		
Other skin protection:		footwe entire imperr	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 chemical (Viton, PVC, himex) and footwear made from the same material.				
8.2.2.3.	Respi	ratory protection:	with a	filter for organic va	(EN 136) or half ma apors, type "A" (boil aed when concentra	ing point >65°C))
8.2.2.4.	Therm	nal hazards:	No info	ormation available			
8.2.3.	Enviro	onmental exposure contro	ls				
		ance/mixture related ures to prevent exposure:	See Se	ction 6			



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	:		1	:	·

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

1	Information on basic physical and	chemical properties	
		Value	Method
	Physical state:	liquid	No information available
	Colour:	yellow	No information available
	Odour/odour threshold:	mild acetic 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:	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

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



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10.2	Chemical	stability:	The product is chemicall conditions of storing and	•			
10.3	Possibility	of hazardous reactions:	No information available	5			
10.4	Conditions to avoid:		No information available	No information available			
10.5	Incompat	ible materials:	No information available	No information available			
10.6	Hazardou	s decomposition produc	ts: No information available	s: No information available			

	oxicological informati nation on hazard classes		n Regu	lation (EC) No 1272	/2008		
	toxicity:						
Route of exposure:	Method	Method Species Effective Dose LE or ATE _{mixtur}				e time	Results
Oral:	No information available	-	No	nformation availab	le -		-
Dermal:	No information available	-	No i	nformation availab	le -	-	
Inhalation:	No information available	-	Noi	information availab	le -	-	
Specif	ic target organ toxicity -	- single expo	osure (S	TOT SE):			
	Specific effects		Target organ		gan		Note
Oral:	No information av	vailable	No information available		-		
Dermal:	No information av	vailable	No information available		ailable	-	
Inhalation:	No information av	vailable		No information av	ailable	-	
Aspira	tion hazard:	N	o inforr	nation available.			
Irritatio	on and corrosion						
	Exposure 1	ime	Speci	es Evaluation	n Method		Note
Skin corrosion/irrita	tion:	-		-	-	-	
Serious eye damage/irritati	on -	-		-	-	-	
Sensiti	zation						
Skin sensitizatio	on: No infor	mation availa	able.				
Respiratory sen	citization: No infor	mation availa	ahla				



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Oral exposure:	No informati	on available.				
Dermal exposure	: No informati	on available.				
Inhalation expos	ure: No informati	on available.				
Eye exposure:	No informati	on available.				
Repeate	d dose toxicity (sub	acute, subchro	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	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-



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Trading	g name:		ME	TANIL YELLOW	, SOLUTION		
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Subacute oral No info		No information	availablo	No	nformation available	-	
	te dermal				nformation available	_	
Subacute inhalation					nformation available	_	
Subchronic oral Subchronic dermal		No information			nformation available	_	
		No information			nformation available	_	
Subchronic inhalation					nformation available	_	
Chronic oral		No information			nformation available	_	
Chronic dermal		No information			nformation available	_	
	inhalation	No information			nformation available	_	
		1				1	
	CMR effect	s (carcinogenicity; mu	Itagenicity; re	productive toxicit	y)		
Carcinogenicity: Mutagenicity <i>in vitro</i> :					ata, the classification	criteria are not met.	
		Bas	sed on available d	ata, the classification	criteria are not met.		
	Genotoxicit	:y:	Bas	Based on available data, the classification criteria are not r			
	Mutagenici	ty <i>in vivo</i> :	p: Based on available data, the classification cr			criteria are not met.	
	Germ cell n	nutagenicity:	genicity: Based on available data, the classification crite			criteria are not met.	
	Reproductiv	ve toxicity:	toxicity: Based on		ata, the classification	criteria are not met.	
	Summary properties:	of evaluation of	the CMR	Based on availa met.	ble data, the classific	ation criteria are no	
	1			E			
11.2	Informatior	n on other hazards:					
11.2.1.	Endocrine o	e disrupting properties:					
		ance/mixture does i					
	•	ts considered to hav					
		properties according (f) or Commission					
		(EU) 2017/2100 or					
		(EU) 2018/605 at leve					
	higher.	-					
11.2.2.	Other infor	mations:					
	_						

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



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

12.2 Persistence and degradability

	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	-

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



Page 12 of 17 **METANIL YELLOW, SOLUTION** Trading name: Product code: MY-OT-X** Date of compilation: 21 Dec 2022 Version: 5 12.3 **Bioaccumulative potential** Octanol-water partition coefficient (log Kow) Value °C Concentration pН Method Evaluation Note _ _ _ _ _ Bioconcentration factor (BCF) Value Species Method Evaluation Note No information No information No information No information _ available available available available Chronic ecotoxicity Exposure Value Dose Species Method Evaluation Note time No No No No Chronic toxicity on fish LC₅₀ information information information information _ available available available available No No No No Chronic toxicity on EC₅₀ information information information information _ crustacea (Daphnia) available available available available 12.4 Mobility in soil Known or predicted distribution in environmental compartments: No information available Surface tension: °C Value Concentration Method Note No No No information No information information information _ available available available available



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	Adsorption / desorption				
Transpo	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	-
1 2 Γ	Decults of DDT and vDvD acco	comont			
12.5	Results of PBT and vPvB asse				
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulation		
12.6.	Endocrino discupting proper	tion			
12.0.	Endocrine disrupting proper				
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	57(f) or Commission	n Delegated regulation		
12.7	Other adverse effects				
	No further relevant informat	ion available.			
SECTIO	N 13. Disposal consideratio	16			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging dispose	al:			
	Submit for disposal to the Protection.	legal person autho	rized by the Ministry of	Environmental ar	nd Nature
13.1.2.	Waste codes/waste design	ations according to) Law:		
	15 01 10*: Packaging that of substances	-		is contaminated v	with hazardous



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No	informati	ion available					
INO	mormati	ION available					
13.1.4. Sev	wage disp	osal – relevant in	formation:				
Wa	iste must	not be disposed	of into the sewage system.				
-							
	•	sal recommendati					
aut	horized b	y the ministry in	t's remains into the sewage sys charge. Do not dispose of the p rs authorized by the ministry in	backaging into the se			
13.1.6. Rel	evant Cor	mmunity provisio	ns:				
Dis	posal mu	st be made accor	ding to official regulations.				
		rt information					
i	sporting/s	shipment by road					
UN number:			Not subject to transport reg	ulations			
UN proper sh			-				
Transport haz		es):	-				
Packing group			-				
Environmenta	lly hazard	lous:	-				
Special precau	utions for	user:	-				
Trans	sporting/s	shipment by rail (I	RID)				
UN number:			Not subject to transport reg	ulations			
UN proper sh	ipping na	me:	-				
Transport haz	ard class(es):	-				
Packing group) :		-				
Environmenta	lly hazard	lous:	-				
Special precau	utions for	user:	-				
Inlan	d waterwa	ay transport (ADN	J)				
UN number:			Not subject to transport reg	ulations			
UN proper sh	ipping na	me:	-				
Transport hazard class(es):		-					
Packing group:		-					
Environmentally hazardous:		-					
Special precautions for user:		-					
Trans	sporting/s	shipment by sea (IMDG)				
UN number:			Not subject to transport reg	ulations			



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UN proper shipping name:	-	
Transport hazard class(es):	-	
Packing group:	-	
Environmentally hazardous:	-	
Special precautions for user:	-	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-	
Transporting/shipment by air (ICAO-TI/IATA-DGR)		
UN number:	Not subject to transport regulations	
UN number: UN proper shipping name:	Not subject to transport regulations -	
	· · · · · · · · · · · · · · · · · · ·	
UN proper shipping name:	-	
UN proper shipping name: Transport hazard class(es):	-	
UN proper shipping name: Transport hazard class(es): Packing group:	- - -	
UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:		

15.1	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 (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; 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 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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	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- 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 assessment None		

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

ANNEX: Exposure scenario resulting to chemical safety assessment



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