

### MUCICARMINE KIT

### **VERSION 3**

The kit contains:

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



Page 1 of 17

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

1.1.	Product identifier				
	Trading name:	FERRI REAGENT, WEIGERT B			
	Chemical name:	-			
	Catalogue number:	FR-OT-X**			
1.2.	Relevant identified us	es of the subst	tance or mix	xture and uses advised against	
	Uses:		For use in	special staining kits.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes		
1.3.	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier: Bi		ioGnost Ltd.		
	Address:	М	Medjugorska 59, Zagreb		
	Telephone number: +		+385 1 2409997		
	Fax no.: +		+385 1 2404039		
	e-mail of competent person: <u>m</u>		msds@biognost.hr		
	National contact:	-			
1.4.	Emergency telephone	Emergency telephone number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2 HAZARDS INFORMATION						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regula	tion (EC) No 12	72/2008 (CLP)				
	Hazard class and category	code:		Hazard statements*:			
	Not identified as hazardous substance						
2.1.2.	Additional information						
	-						
*For ful	l text of Hazard- and EU Hazard-sta	atements: see Se	ection 16				
2.2.	Classification according to EC Dire	ective Nr. 1272/	2008 CLP)				
	Product identification:	FERRI REAGEN	NT, WEIGERT B				
	Identification number: -						
	Authorization no.:						
	Hazard pictograms:	-					



Page 2 of 17

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

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

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

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



Page 3 of 17

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

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

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

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



Page 4 of 17

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

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

SECTIO	ON 7 HANDLING AN STORAGE				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation	n: Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	-			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. The	proughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any incomp	patibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels.	Keep away from food and drink. Keep the containers tightly closed.			
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.			



Page 5 of 17

Trading name:					FER	RI REAG	ENT, WEIGER	T B			
Produ	ıct code:	FR-OT-	<b>X</b> **	R	evisio	n date:	21 Dec 202	2 Ver	rsion:	5	
	Further ir	ner information on storage conditions:				Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).					
7.3.	Specific e	nd use(s)									
	Recomm	endations:				-					
	Industrial	sector spe	cific solutio	ns:		-					
	ON 8 EXPO		TROLS/PER	RSONAL	PROTI	ECTION					
8.1.	Control p	arameters			I			I			
	Culturation of	_	CAC	NI -			exposure limit term values	D:	. 1	Santa and bank	
	Substance	е	CAS	NO		opm	mg/m <sup>3</sup>	BIC	ologicai ii	ological limit values	
Hvdro	gen chloride	<u> </u>	7647-0	01-0	1	5/10	8/15				
<b>y</b>	9			<u> </u>			-, -				
Substa	-										
EC No:	:		CAS No:	-							
DNEL											
					Ind	ustrial					
Route expos			Acute ect local	Acute effect systemic			Chronic effect local		eff	Chronic ect systemic	
Oral		-		-			-		-		
Inhalat	tion	-		-			-		-		
Derma	al	-		-			-		-		
Critica	l physical pa	rameters: s	solubility, fla	mmabilit	ty, corr	osivity:	-				
					Cor	sumer			1		
Route expos			Acute ect local	effe	Acute		Chron effect lo				
Oral		-		-			-		-		
Inhalation		-			-		-				
Derma	al	-		-			-		-		
PNEC											
Environmental protection target				PNEC							
Fresh v	water					No information available					
Freshw	vater sedime	ents				No infor	mation availabl	е		_	
Marine water				No information available							



Page 6 of 17

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

Marine se	diments			No information available		
Food chai	n			No information available		
Microorga	anisms in sewage treatment			No information available		
Soil (agric	ultural)			No information available		
Air				No information available		
8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture related measures to prevent expoduring identified uses:			product in well ventilated rooms. Use personal protective ent. Do not eat, drink or smoke in the workspace.		
	Structural measures to pre exposure:	event	No info	rmation available		
	Organisational measures to prevent exposure:		_	zation of work in order to reduce other worker's influence work process.		
	Technical measures to pre exposure:	event		proper workspace ventilation in order to keep tration levels in air below permitted levels.		
8.2.2.	Personal protection equipment					
8.2.2.1.	Eye and face protection:		Safety o	glasses that stick to face (preventing splashing) (EN 166) or		
8.2.2.2.	Skin protection					
	Hand protection:		ard EN 37 Glove n Glove tl	es must be according to the EU Directive 2016/425/EEC and 4.  naterial: nitrile rubber  hickness: ≥0.50 mm  hrough time: >480 min		
	Other skin protection:	Wear antistatic		atic clothing made of natural fibers (such as cotton) with long 13034), and shoes that cover the entire foot (EN 10335).		
8.2.2.3.	Respiratory protection:	filter f	or organi	ace mask (EN 136) or half mask (EN 140) equipped with a c vapors, type "A" (boiling point >65°C) acording to EN nen concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No inf	ormation	available		
8.2.3.	Environmental exposure of	ontrols				
	Substance/mixture related measures to prevent expo		See Section 6			
	Structural measures to pre exposure:	event	Use modern equipment.			
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.			



Page 7 of 17

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

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

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

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



Page 8 of 17

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

Hazardous decomposition products: No information available. 10.6.

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



Page 9 of 17

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

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



Page 10 of 17

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

Subacu	te dermal	No informatio	n available	No information available	_			
Subacu	te inhalation	No informatio	n available	No information available	-			
Subchro	onic oral	No informatio	n available	No information available	-			
Subchro	onic dermal	No informatio	n available	No information available	-			
Subchro	onic inhalation	No informatio	n available	No information available	-			
Chronic	oral	No informatio	n available	No information available	-			
Chronic	dermal	No informatio	n available	No information available	-			
Chronic	inhalation	No informatio	n available	No information available	-			
				roductive toxicity)	prein aganis offacts			
	Carcinogenicity			s on test animals did not indicate ca				
	Mutagenicity i	n-vitro:	Current <i>in vitro</i> tests did not indicate mutagenic effects.  No information available					
	Genotoxicity:	n vivo:			c offocts			
	Mutagenicity i		No informatio	o tests did not indicate mutageni	c effects.			
	Reproductive t			n reproductive organs was deter	mined in reproductiv			
	Summary of ev	valuation of the	CMR properties:	-				
11.2	Information or	n other hazards:						
11.2.1.	Endocrine disr	upting propertie	s:					
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher							
	higher.							
11.2.2.	Other informations:							

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



Page 11 of 17

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

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

#### 12.2. Persistence and degradability

Abiotic degradation

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

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

#### 12.3. Bioaccumulative potential



Page 12 of 17

Trading name: FERRI REA							REAGE	NT, W	/EIGERT	В		
Produ	ct code:	FR-OT	Γ-X**		Rev	ision d	ate:	21 De	ec 2022	Ve	ersion:	5
	i		nt: n-octar									
Valu		oncentrat		рН	°C		ethod		Evalua		Note	
-	No avai	inform lable	ation -		_	No info			No inform Ivailable	nation	-	
	Bioconce	ntration f	actor (BC	F)								
١	<b>V</b> alue		Species			Method	l		Evaluation	on		Note
No information No informa		mation	No infa	ormatic ole	on	No i avail	nformation	on	No info availabl	rmation le		
	Chronic 6	ecotoxicit	y									
Value Dose Ex				osure ime	Spe	ecies	M	ethod	Ev	aluation	Note	
Chroni	c toxicity o	n fish	LC <sub>50</sub>	No infor avail	mation able	No infori availa	mation able	No infor avail	rmation lable	No information available		-
	c toxicity o		EC <sub>50</sub>	No infor avail	mation able			No infor avail	rmation lable	No in availa	formation ble	-
12.4.	Mobility	in soil										
	1		d distribu	ition in 4	nvironn	nental c	ompar	tmanta				
		nation av				incintal C	.ompai	ciits	·			
	Surface t		anabic									
	Value		°C	С	oncentra	ation		Met	thod			Note
	No informati available	No ion info	ormation ailable	No	informa ailable		No in	format		_		
	Adsorption	on / deso	rption									
Transp	ort	A/D coef	ficient	lo	og Kow	Εν	/aporati	ion rat	e	Method	ł	Note



Page 13 of 17

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

						<u> </u>					
Soil-wa	ter No available	information	No information available	No information available	No information available	-					
Water-a	air No available	information	No information available	No information available	No information available	-					
Soil-air	No available	information	No information available	No information available	No information available	-					
12.5.	Results of PBT	and vPvB asses	ssment								
	according to R	EACH Article 5	•	n Delegated regula	to have endocrine d tion (EU) 2017/2100	isrupting properties or Commission					
12.6.	Endocrine disrupting properties										
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.										
12.7.	Other adverse	effects									
	No information	n available									
SECTIO	N 13 DISPOSAL	L CONSIDERA	ΓIONS								
13.1.	Waste treatm	nent methods									
	·										
13.1.1.	Product/Pack	kaging disposa	l:								
	Submit for di Protection.	isposal to the l	egal person autho	rized by the Minist	ry of Environmental	and Nature					
13.1.2.			tions according to	Law:							
	No informati	on available									
13.1.3.	Waste treatm	nent – relevant	information:								
	No informati	on available									
	:										
13.1.4.	Sewage dispo	osal – relevant	information:								
	Waste must r	not be dispose	d of into the sewa	ge system.							
13.1.5.	Other disposal recommendations:										



Page 14 of 17

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

	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur.						
13.1.6.	Relevant Community provisions:						
	-						
SECTIO	N 14 TRANSPORT INFORI	MATION					
	Transporting/shipment by	road (ADR)					
UN num	ber:	Not subject to transport regulations.					
UN prop	er shipping name:	_					
Transpo	rt hazard class(es):	_					
Packing	group:	_					
Environr	nentally hazardous:	_					
Special p	precautions for user:	-					
	Transporting/shipment by	rail (RID)					
UN number:		Not subject to transport regulations.					
UN prop	er shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environr	nentally hazardous:	-					
Special p	precautions for user:	-					
	Inland waterway transport	(ADN)					
UN num	ber:	Not subject to transport regulations.					
UN prop	er shipping name:	-					
Transpo	rt hazard class(es):	_					
Packing	group:	-					
Environr	nentally hazardous:	-					
Special p	precautions for user:	-					
	Transporting/shipment by sea (IMDG)						
UN number:		Not subject to transport regulations.					
UN prop	er shipping name:	-					
Transpo	rt hazard class(es):	-					
Packing	group:	-					
Environr	mentally hazardous:	-					
Special precautions for user:		-					



Page 15 of 17

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

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

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



Page 16 of 17

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

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

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



#### **SAFETY DATA SHEET**

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

Page 17 of 17

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

ANNEX:
EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT
-



### **SAFETY DATA SHEET**

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

Page 1 of 17

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

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

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Reg	ulation (EC) No 12	72/2008 (CLP)			
	Hazard class and categ	ory code:		Hazard statements*:		
	Flam. Liq. 2		H225			
2.1.2.	Additional information					
	-					
*For ful	I text of Hazard- and EU Hazard-	statements: see Se	ction 16			
2.2.	Label elements					
	Product identification: HEMATOXYLIN, WEIGERT A					
	Identification number: -					
	Authorisation number:	-				



Page 2 of 17

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

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

SECTION 3. Comp	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
107-21-1/ 203-473-3/ 603-027-00-1	01-2119456816- 28-xxxx	1- 10 %	ethylene glycol	Acute Tox. 4, H302			
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610- 43-0147	60 – 80 %	ethanol	Flam. Liq. 2, H225			

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



## **SAFETY DATA SHEET**

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

Page 3 of 17

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

	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 15 minutes with the eyelids held wide open.	
	Following ingestion:	Rinse the mouth thoroughly with water. If the afflicted person is conscious, provide them with large amounts of water. Consult a physician.	
	Self-protection of the first aider	-	
4.2.	Most important symptoms and eff	ects, both acute and delayed	
	Following inhalation:	May cause eye irritation and upper respiratory system (stinging sensation, irritation). Bronchoconstriction is possible. Possible symptoms include CNS symptoms such as headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration.	
	Following skin contact:	Defatting, dry skin.	
	Following eye contact:	Splatter may cause discomfort, stinging sensation, conjunctival redness, corneal surface lesions.	
	Following ingestion:	It may lead to occurrence of strong sensation of stinging, headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration. If denaturants are present, dyspepsia may occur (such as vomiting).	
4.3.	4.3. Indication of any immediate medical attention and special treatment needed		
	No information available		

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

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



Page 4 of 17

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

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

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



Page 5 of 17

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

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

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



Page 6 of 17

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

Route of expo	sure:	Acute effect local	Acut		Chronic effect local	Chronic effect systemic	
Oral		-	- enect sys	Sterriic	-	-	
Inhalation		950 mg/m³ (ethanol)	-		7 mg/kg (ethylene glycol)	114 mg/m³ (ethanol)	
Dermal		-	-		-	206 mg/kg (ethanol) 53 mg/kg (ethylene glycol)	
PNEC							
Environmental	protec	tion target		PNEC			
Fresh water				_	l (ethanol) (ethylene glycol)		
Freshwater sediments				_	g (ethanol) g (ethylene glycol)		
Marine water				0.79 mg/l (ethanol) 1 mg/l (ethylene glycol)			
Marine sediments				2.9 mg/kg (ethanol) 3.7 mg/kg (ethylene glycol)			
Food chain				380-720 mg/kg (ethanol)			
Microorganism	ns in sev	wage treatment		580 mg/l (ethanol) 199.5 mg/l (ethylene glycol)			
Soil (agricultur	al)			0.63 mg/kg (ethanol) 1.53 mg/kg (ethylene glycol)			
Air				no inforr	nation available		
8.2. Ex	cposure	controls					
8.2.1. Er	ngineer	ing measures					
		e/mixture related exposure during id					
	Structural measures to prevent exposure:			No inform	nation available		
	rganisa ‹posure	tional measures to ::	prevent	•	ion of work in order to during work process.	o reduce other worker's	
	echnica kposure	I measures to prev	ent	See Section 7.2			
8.2.2. Pe	ersonal	protection equipm	nent				



Page 7 of 17

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

8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.				
8.2.2.2.	Skin protection					
		Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374.				
	Hand protection:	Glove material: nitrile rubber				
		Glove thickness: ≥0.50 mm				
		Break through time: >480 min				
	Other skin protection:	During everyday work use cotton clothing and suitable footwear, such as rubber boots or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.				
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No information available				
8.2.3.	Environmental exposure controls					
	Substance/mixture related measures to prevent exposure:	See Section 6				
	Structural measures to prevent exposure:	Use modern equipment.				
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to prevent exposure:	See Section 6				

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



Page 8 of 17

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

	Lover and upper explosion limit:	No information available	No information available
	Flash point:	20°C	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	Other information		
	-		

SECTIO	ON 10.: Stability and reactivity	
10.1.	Reactivity:	The product is stable under normal working and storage conditions.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3.	Possibility of hazardous reactions:	Risk of explosion after contact with strong acids, alkali metals, alkali metal oxides, nitric acid, oxidizing substances.
10.4.	Conditions to avoid:	High temperatures, ignition sources, open flame.
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.

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



Page 9 of 17

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

Dermal:	No information available	rabbit	LD <sub>50</sub>	-		>3.50	00 mg/kg (e 0mg/kg ene glycol)	thanol)	
Inhalation:	No information available	rat	LC <sub>50</sub> 4 (e		>8.000 mg/l		0 mg/l (etha	g/l (ethanol)	
į									
Specific	target organ toxicit		•						
	•	Specific effects			get orga			Note	
Oral:		No information available		No informa			-		
Dermal:	No information			No informa			-		
Inhalation:	No information	available		No informa	tion ava	ilable	-		
Aspirati	on hazard:		No inform	nation availab	e				
Irritatio	n and corrosion								
	Exposure	time	Species	Evaluation	n M	ethod	١	Note	
Skin corrosion/irritation	on:	-	-	-	-		No available	information	
Serious eye damage/irritation	- 1	-	-	-	-		No available	information	
:									
Sensitiz									
Skin sensitization	: No information	available							
Respiratory sensitization:	No information	available							
Sympto	ms related to the pl	nysical, che	emical and to	oxicological ch	naracteri	stics			
Oral exposure:	It may lead to do loss of conscious present, dysper	usness afte	r exposure t	o higher level			•		
Dermal exposure	: Defatting, dry s	kin.							
Inhalation exposure:	May cause eye Bronchoconstri headache, verti concentration.	ction is po	ssible. Possil	ble symptoms	include	CNS syn	nptoms such	as	
Eye exposure:	Splatter may ca	use discor	nfort, stingir	ng sensation, o	conjunct	ival redn	ess, corneal	surface	



Page 10 of 17

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

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

Specific target	organ toxicity – repeated exposur	e (STOT RE):	
	Specific effects	Target organ	
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	-



Page 11 of 17

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

Chronic	dermal	No information available	No information available	-			
Chronic	inhalation	No information available	No information available	-			
	CMR effects (	carcinogenicity; mutagenicity; re	eproductive toxicity)				
	Carcinogenicity:		No information available				
	Mutagenicity in-vitro:		No information available				
	Genotoxicity:		No information available				
	Mutagenicity in-vivo:		No information available				
	Germ cell mutagenicity:		No information available				
	Reproductive toxicity:		No information available				
	Summary of properties:	f evaluation of the CMR	-				
11.2.	Information o	n other hazards:					
11.2.1.	Endocrine dis	rupting properties:					
	No known e that affect hu	ndocrine disrupting propertie man health.	S				
11.2.2.	Other informa	ations:					
	_						

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



Value

**Species** 

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

Page 12 of 17

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

Product code:	HEMA-OT->	(** Dat	e of compilation	n: 19 Dec	2023 Version:	6
Chronic (long-ter toxicity	m) Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic pla	ants IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Microorganisms	-	-	-	-	-	-
12.2. Persister	nce and degrada	hility				
	degradation	Sility				
	Degradation half-lives		Method		Evaluation	Note
Marine water	No information available		No information available N		No information availabl	e -
Fresh water	No information a	available	No information available		No information availabl	e -
Air	No information a	available	No information available		No information availabl	e -
Soil	No information a	available	No information available N		No information availabl	e -
B: 1						
% Degradation			Mathad	Fyel	uation N	ot o
% Degradation	Time (day	5)	Method	Evalu	-	ote
-	-	-		-	<del>-</del>	
12.3. Bioaccur	mulative potentia	al				
	coefficient: n-oc		log Kow):			
	Concentration		C Metho	od Eva	aluation [	Note
			-	-	-	
D:		DCT)				
Rioconce	entration factor (	BCF)				

Method

Evaluation

Note



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

amended by Regulation (EU) No. 2020/878

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

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

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

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



Page 14 of 17

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

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



Further information:

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

amended by Regulation (EU) No. 2020/878

Page 15 of 17

Trade name:	HEMATOXYLIN, WEIGERT A						
Product code: H	EMA-OT-X**	Date of compilation:	19 Dec 2023	Version:	6		
Transport hazard class	(PC).	3					
Packing group:							
Environmental hazards		No information available					
Special precautions for		-					
•	shipment by rail (R	ID)					
UN number:		1170					
UN proper shipping na	ame:	Ethanol solution					
Transport hazard class		3					
Packing group:		I					
Environmental hazards	 S:	No information available					
Special precautions for	r user:	_					
	shipment by inland	waterways (ADN)					
UN number:		1170					
UN proper shipping na	ame:	Ethanol solution					
Transport hazard class	(es):	3					
Packing group:		II					
Environmental hazards	S:	No information available					
Special precautions for	r user:	-					
Transporting/	shipment by sea (IN	MDG)					
UN number:		1170					
UN proper shipping na	ame:	Ethanol solution					
Transport hazard class	(es):	3					
Packing group:		II					
Environmental hazards	5:	No information available					
Special precautions for	r user:	-					
Transport in bulk according MARPOL 73/78 and	_	-					
Transporting/	shipment by air (IC	AO-TI/IATA-DGR)					
UN number:		1170					

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



Page 16 of 17

Trade name:		<b>.</b>			
Product code:	HEMA-OT-X**	Date of compilation:	19 Dec 2023	Version:	6

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture						
	EU regulations						
	Authorization and/or rest	rictions of use					
	Authorizations:	-					
	Restrictions:	-					
		Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9, and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;					
	Other EU regulations:	Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;  Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safet					
		of workers from the risks related to chemical agents at work;  Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 1  December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;					
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);					
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-					
	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Transport of Hazardous Substances Act						
5.2.	Chemical safety assessme	ent					
	None						

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



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

amended by Regulation (EU) No. 2020/878

				Page 17 o	f 17
Trade name:		HEMATOXYLIN	, WEIGERT A		
Product code:	HEMA-OT-X**	Date of compilation:	19 Dec 2023	Version:	6

16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  IMDG: International Maritime Code for Dangerous Goods  IATA: International Air Transport Association  GHS: Globally Harmonised System of Classification and Labelling of Chemicals  EINECS: European Inventory of Existing Commercial Chemical Substances  CAS: Chemical Abstracts Service (division of the American Chemical Society)  DNEL: Derived No-Effect Level (UK REACH)  LC50: Lethal concentration, 50 percent  LD50: Lethal dose, 50 percent  PBT: Persistent, Bioaccumulative and Toxic  vPvB: very Persistent and very Bioaccumulative				
16.3.	Key literature references and source of data:	-				
16.4. Classification and procedure 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)				
Classifi	cation	Classification procedure				
_		-				
16.5.	Relevant H statements (num	per and full text)				
	H: 225 302	Highly flammable liquid and vapor. Harmful if swallowed.				
16.6.	Training advice:	-				
16.7.	Further information:	** "X" in the product code marks different volumes (different packaging of the product)  We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.				

Δ	N	IN	П	E	Y	

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 



### SAFETY DATA SHEET

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

Page 1 of 17

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 MUCI	CARMI	NE			
	Chemical name:	-					
	Catalogue number:	MMU-OT-X**					
1.2.	Relevant identified	l uses of the substa	ance or	r mixture ar	d uses advised against		
	Uses:			For use w	th Mucicarmine kit.		
	Uses advised agair	nst:		Only the i	dentified uses are advised.		
	Reason why uses a	advised against:	nst: m		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 supp	Details of the supplier of the safety data sheet					
	Supplier:		BioG	BioGnost Ltd.			
	Address:		Medj	Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039			
	Telephone numbe	r:	+385				
	Telefax:		+385				
	E-mail of compete	nt person:	msds	nsds@biognost.hr			
	National contact:		-				
1.4.	Emergency telephone numbers						
	National Protectio	n and Rescue Direc	ctorate	:	112		
	Medical information	on:			+385 1 2348 342		
	Other information:				_		

SECTI	SECTION 2. Hazards identification					
2.1.	Classification of the substance	e or mixture				
2.1.1.	Classification according to Re	gulation (EC) No	o. 1272/2008 (CLP)			
	Hazard class and categ	ory code:		Hazard statement*:		
	Flam. Liq. 3 H226					
2.1.2.	Additional information					
	-					
*For fu	*For full text of Hazard- and EU Hazard-statements: see Section 16.					
2.2.	Label elements					
	Product identification:	Product identification: MAYER'S MUCICARMINE				
	Identification number:	dentification number: -				



### SAFETY DATA SHEET

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

Page 2 of 17

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:	<ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke.</li> <li>P233 Keep container tightly closed.</li> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> </ul>
	Supplemental hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Prope	rties:
	No known endocrine disrupti	ng properties
	<b>Results of PBT and vPvB ass</b> PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

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

SECT	SECTION 4. First aid measures		
4.1.	Description of first aid measures	3	
	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.	



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

amended by Regulation (EU) No. 2020/878

Page 3 of 17

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

	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.	
	Following swallowing:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.	
	Self-protection of the first aider	-	
4.2.	Most important symptoms and effects, both acute and delayed		
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.	
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.	
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.	
	Following swallowing:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.	
4.3.	Indication of any immediate med	ical attention and special treatment needed	
	No information available		

SECT	CTION 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 we 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 equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
	Protective equipment:	Use personal protective equipment (see Section 8).	



Page 4 of 17

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

	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:			
	Self-contained open-circuit con heat dissipation (fireproof cloth	npressed air breathing apparatus, a set for protecting the body from ing).		
6.2.	Environmental precautions:			
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.			
6.3.	Methods and materials for cont	tainment 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, sand, mineral adsorbents		
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). Do not use incompatible materials (see Section 10).		
6.4.	Reference to other sections			
	See Section 7 for information o	n safe handling.		
	See Section 8 for information o	n personal protection equipment.		
	See Section 13 for disposal information.			

SECTIO	TION 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Weasures to prevent fire:  Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tool 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	compatibilities			



Page 5 of 17

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

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

SECTION 8. Exposure controls/personal protection								
8.1. Control para	8.1. Control parameters							
Substance	CAS No				exposure limit term values	Biological limit values		
			pp	m	mg/m³			
Ethanol	64-17	-5	100	00/-	1900/-	No information available		
Substance: -								
EC No:	-		CA	S No:	-			
DNEL								
			Industr	ial				
Route of exposure:	Acute	ute Acut		e Chronic		Chronic		
Route of exposure.	effect local	effect sys	stemic	emic effect local		effect systemic		
Oral	-	-		-		-		
Inhalation	1900 mg/m³ (ethanol)	-	-			380 mg/m³ (ethanol)		
Dermal	1	-		-		343 mg/kg (ethanol)		
Critical physical parameters: solubility, flammability, corrosivity:								
Consumer								
Route of exposure:	Acute	Acut	te		Chronic	Chronic		
Route of exposure:	effect local	effect sys	stemic	е	ffect local	effect systemic		
Oral	-	-		-		87 mg/kg bw/day (ethanol)		



### SAFETY DATA SHEET

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

Page 6 of 17

Trade n	ame:		MAYER'S MUCICARMINE						
Product	Product code: MMU-OT-X**		Date of compilation: 14 Nov 2022 Version: 4					4	
Inhalatio	n	950 mg/m³ (ethanol)	-	- 114 mg/m <sup>3</sup>			n³ (ethanol)		
Dermal		-	_	- 206 mg/kg (ethanol				(ethanol)	
PNEC								· · · · · · · · · · · · · · · · · · ·	
Environn	nental pro	tection target		PNEC					
Fresh water			0.96 mg/l (	ethanol)					
Freshwater sediments			3.6 mg/kg	(ethanol)					
Marine water			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 (agri	icultural)			0.63 mg/kg	ı (ethanol)				
Air			no information available						
	£								
8.2.	Exposur	e controls							
8.2.1.	Approp	riate engineering cont	trols						
	measure	ce/mixture related es to prevent exposure dentified uses:	e	Do not eat, drink or smoke in the workspace. Use personal protective equipment.					
	Structur exposur	al measures to prever e:	nt	No information available					
		ational measures to exposure:	res to Organization of work in order to reduce other wo during work process.			orker's influe	nce		
	Technic exposur	al measures to prever e:	nt	See Section	7.2				
8.2.2.	Persona	l protection equipme	nt						
8.2.2.1.	Eye and	face protection:	of c	oncentration i	t stick to face (El n air; protective evels of concent	gas mas	k that cover		
8.2.2.2.	Skin pro	tection							
	Hand pr	rotection:		tective gloves must be according to the EU Directive 2016/425/EE I standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min			ÆEC		



Page 7 of 17

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

	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.			
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped wit a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No information ava	ilable		
8.2.3.	Environmental exposure cor	ntrols			
	Substance/mixture related r exposure:	measures to prevent	See Section 6		
	Structural measures to prevent exposure:  Organisational measures to prevent exposure:		Use modern equipment.		
			Adapt the work process to the required working conditions of the workplace.		
	Technical measures to preven	ent exposure:	See Section 6		

1.	Information on basic physical and 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			



Page 8 of 17

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

	Density and/or relative density:	no information available	no information available
	Relative vapour density:	no information available	no information available
	Particle characteristics:	no information available	no information available
9.2.	Other information		
	-		

SECTIO	SECTION 10.: Stability and reactivity				
10.1.	Reactivity:	The product is stable under normal working and storage conditions.			
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.			
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.			

SECTIO	N 11. T	oxicol	ogical	informa	tion	

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

Acute toxicity:

	,				
Route of exposure:	Method	Species	Effective Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results
Oral:	-	rat	LD <sub>50</sub>	_	7.060 mg/kg (ethanol)
Dermal:	-	rabbit	LD <sub>50</sub>	-	>20.000 mg/kg (ethanol)
Inhalation:	-	rat	LC <sub>50</sub>	4 h (ethanol)	>8.000 mg/l (ethanol)

Specific target organ toxicity - single exposure (STOT-SE):

	Specific effects	Target organ	Note
Oral:	No information available	No information available	-
Dermal:	No information available	No information available	-
Inhalation:	No information available	No information available	-

Aspiration hazard:	No information available



Page 9 of 17

Trad	e name:	MAYER'S MUCICARMINE						
Proc	luct code:	MMU-OT-X**	Date of compilation:	14 Nov 2022	Version:	4		

r roduct code.		1011010-01-				ірпацоп.				
Irritation ar	nd co	rrosion								
		Exposur	e time	Species	5	Evalu	uation	Metho	od	Note
Skin No information available			No infor	mation	No informa available	tion	No informatic available	on	-	
Serious eye damage/irritation No informatio available				No informavailable	mation	No informa available	tion	No informatio available	on	-
Sensitization										
Skin sensitization		No infor	mation a	available						
Respiratory sensitization:		No infor	mation a	available						
Symptoms re	elated	I to the phy	sical, che	emical and toxi	cologica	al characteris	tics			
Oral exposure:  Swallowi sensation in case of			higher l vomiting	evels of conce	ntration uses cou	may cause r	ausea, ab	n the mouth, b dominal pain a ning. Higher lev	nd vom	iting.
Dermal exposui	re:	_		ter short expos cracking and t		•		t likely. Long-te	rm expo	osure
Inhalation exposure:			ion of large amounts of vapors in inadequately ventilated perimeter may cause ng, sneezing, headache and nausea.							
Eye exposure:		Direct eye sensation.	eye contact may cause slight to moderate irritation, lacrimation and burning tion.							
Panastad da	so to	vicity (cuba	suto sub	ochronic, chron	ic)					
Nepeated do	36 10.	Dose		osure time	Spec	ies Metho	nd	Evaluation	Note	
Subacute oral	No information No		No availab	information	No inform on availab	ati No inforn	nation	No information available	-	-
Subacute dermal	info	No information available		information lle	No inform on availab	ıntorn ayaila		No information available	<b>–</b>	
Subacute information available No available		information ble	No inform on availab	ıntorn availa		No information available	-			



Page 10 of 17

Trade name:		NE			
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	n -
Subchronic dermal	No information available	No information available	No informati on available	No information available	No information available	n -
Subchronic inhalation	No information available	No information available	No informati on available	No information available	No information available	n -
Chronic oral	No information available	No information available	No informati on available	No information available	No information available	n -
Chronic dermal	No information available	No information available	No informati on available	No information available	No information available	n -
Chronic inhalation	No information available	No information available	No informati on available	No information available	No information available	n -
Specific targ	et organ toxicity	/ - repeated exposure (S				
		Specific effect		Target o	Note	
Subacute oral		No information availab		No information a	_	
Subacute derm		No information availab		No information available		_
Subacute inhala		No information availab		No information available		_
Subchronic ora		No information availab		No information available -		
Subchronic der		No information availab		No information a		-
Subchronic inha	alation	No information availab		No information a		_
Chronic oral		No information availab		No information a		_
Chronic dermal		No information availab		No information a	_	
Chronic inhalat	ion	No information available	ole	No information a	vailable	-
CNAD (C. )	/					
	(carcinogenicity	r, mutagenicity, reproduc	tive toxicit	(y)		
Carcinogenic			NI. 1 C	rmation available		



Page 11 of 17

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

Geno	otoxicity:	No information available					
Muta	genicity <i>in-vivo</i> :	No information available					
Germ	n cell mutagenicity:	No information available					
Repro	oductive toxicity:	No information available					
Sumr	mary of evaluation of the CMR properties:	No information available					
11.2.	Information on other hazards:						
11.2.1.	Endocrine disrupting properties:						
No known endocrine disrupting properties that affect human health.							
11.2.2.	Other informations:						
	-						

SECTION 12. Ecological information  12.1. Toxicity									
Fish	LC <sub>50</sub>	96 hours	Fish	No information available	8.140 mg/l (ethanol)	-			
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-			
Algae/aquatic plants:	IC <sub>50</sub>	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 <sub>50</sub>	96 hours	No information available	No information available	No information available	<b>-</b>			
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-			
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	_			



#### SAFETY DATA SHEET

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

Page 12 of 17

Trade name:					MAYER'S MUCICARMINE									
Product	cod	e:	MMU	-OT-X**			Date	e of c	ompilati	on:	14	Nov 2022	Version:	4
			:	*			:		Ţ					:
Other organisn	ns	-		-		-				-		-		
12.2.				egradabi	lity									
	Abic		egradatio							1				
		D	egradat	ion half-	lives			/letho			aluatic		Note	
Marine water		No ir	nformati	on availa	ble		lo infor vailable		on	No info		on -		
Fresh wa	iter	No ir	nformati	on availa	ble		lo infor vailable		on	No info		on -		
Air		No ir	nformati	on availa	ble		lo infor vailable		on	No info		on -		
Soil		No ir	nformati	on availa	ble		lo infor vailable		on	No info		on -		
	•											•		
Biode	grada	ation												
% Degra	% Degradation Time (days)			Method			Eva	aluatio	on	Note				
-		-				-				-		-		
12.3.	В	Bioacc	umulativ	e poten	tial									
	C	Octano	ol-water	partition	coeffi	icient		ow)						
Value		Co	oncentra	ition	p⊦	1	°C		Method	l	Eval	uation	Note	
-	-				-	-	•	-		-		-		
		centra		tor (BCF)						-				
Valu	re			Species				Met	hod		Eva	luation	Note	<b>;</b>
No informat available	nformation No information available		: N	No information available			ا ما	No information available		-				
Chron	nic ec	otoxio	rity											
Val	ue		Dose	9	Expos	sure t	ure time Species		pecies	Meth	od	Evaluation	n Not	te
Chronic toxicity LC <sub>50</sub> No inform			rmati	on	No		No		No	-				



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

amended by Regulation (EU) No. 2020/878

Page 13 of 17

Trade r	name:				MA	YER'S MUC	ICARM	INE		ige 15 of 1	•
Produc	t code	: MMU-	OT-X**	[	Date	of compilation	on:	14	Nov 2022	Version:	4
on fish			avai	able		information available	inform availab		information available	1	
on crus	nronic toxicity a crustacea $EC_{50}$ $EC_{50}$ No information available				No information available	No informavailab		No information available	1 -		
12.4.	Mobi	lity in soil									
		•	d distribut	ion in enviro	nmer	ntal compartm	nents:				
	No ir	nformation av	ailable								
	Surfa	ce tension:									
		Value		°C	Co	oncentration	Me	thod		Note	
	No availa	information able	No available	information		information ilable	No inforn availa		<b>–</b>		
	•	/ desorption A/D coeff	cient	log Ko		Evaporatio	un rata		Method	Not	
Transpo	ort	Henry's co	nstant	log Ko	ow Evaporation		n rate	e Metriou		Note	=
Soil-Wa	at∆r :	lo in vailable	formation	No inform available	ation	n No information available		No information available		-	
Water-A	Δir :	lo in vailable	formation	No inform available	ation	No informa available	tion No information available			-	
Soil-Air		lo in vailable	formation	No inform available	ation	No informa available	tion	No information available		-	
12.5.	Resu	lts of PBT and	vPvB asse	ssment							
	Base	d on available	data, the <sub>l</sub>	oroduct doe	s not	contain any P	BT or vP	vB sub	stances.		
12.6.		crine disrupti	J		اء ماء دا	o onino aliani	0.00				
	pase	u on avallable	uala, does	s not contair	rend	ocrine disrupt	UIS.				
12.7.	Othe	r adverse effe	cts								
		dverse effects		ted.							
	<u> </u>										
SECTIO	N 13.	Disposal con	sideration	s							
13.1.	\//ac+	e treatment n	nethods								



Page 14 of 17

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

13.1.1.	Product/Packaging disposal:	
15.1.1.		l person authorized by the Ministry of Environmental and Nature
	1	
13.1.2.	Waste codes/waste designation	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	
	Waste must not be disposed o	f into the sewage system.
13.1.5.	Other disposal recommendation	anc:
15.1.5.	Other disposal recommendation	's remains into the sewage system. Submit the remains to the collectors
	•	harge. Do not dispose of the packaging into the sewage system. Submit
	the packaging to the collectors	s authorized by the ministry in charge.
13.1.6.	Relevant Community provision	s:
	Disposal must be made accord	ling to official regulations.
	N 14. Transport information	
······	nsporting/shipment by road (ADF	
UN num		1170
	per shipping name: rt hazard class(es):	Ethanol solution
Packing		
	mental hazards:	No information available
	precautions for user:	-
<del>-                                    </del>	rsporting/shipment by rail (RID)	
UN num		1170
UN prop	per shipping name:	Ethanol solution
•	rt hazard class(es):	3
Packing	group:	III
Environr	nental hazards:	No information available
Special p	orecautions for user:	-



### SAFETY DATA SHEET

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

Page 15 of 17

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

Transporting/shipment by inland wat	erways (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	i)		
UN number:	1170		
UN proper shipping name:	Ethanol solution		
Transport hazard class(es):	3		
Packing group:	III		
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:	III		
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				
	Authorisation and/or restrictions on use				
	Authorisations: -				
	Restrictions: -				



### SAFETY DATA SHEET

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

Page 16 of 17

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

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

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



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

amended by Regulation (EU) No. 2020/878

Page 17 of 17

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

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
		onyms:	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 proc 1272/2008 (CLP)	edure used to derive the	classification for mixture according to Regulation (EC)
Classific	cation	Classification procedur	re
_		-	
16.5.	Relevant H statements	(number and full text)	
	H: 225	Highly flammable	liquid and vapor.
	226	Flammable liquid a	·
16.6.	Training advice:	-	
		** "X" in the product co	ode marks different volumes (different packaging of the
16.7.	110 410 1100 100 000		e for consequences in case of failure to comply with improper use of the product described in this material

ANNEX: Exposure scenario resulting to Chemical safety assessment
-



Page 1 of 17

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

SECT	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	METANIL Y	METANIL YELLOW, SOLUTION			
	Chemical name:	-				
	Catalogue number:	MY-OT-X**				
1.2	Relevant identified us	es of the subs	tance or n	nixture 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	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:	ddress:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection a	nd Rescue Dire	ectorate:	112		
	Medical information: Other information:			+385 1 2348 342		
				-		

SECTIO	CTION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard statements*:					
	Not identified as hazardous	substance.	-			
2.1.2.	Additional information					
	-					
*For fu	ıll text of Hazard- and EU Haza	ard-statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	METANIL YELLO	)W, SOLUTION			
	Identification number: -					
	Authorization number: -					
	Hazard pictograms: -					



Page 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 Proper	ties:			
	No known endocrine disruptin	g properties			
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a PBT or a vPvB.				

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

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



Page 3 of 17

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
	-	

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

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



Page 4 of 17

Trading name:	METANIL YELLOW, SOLUTION				
Product code:	MY-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	See Section 13 for disposal information.				

SECTIO	ON 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generation:		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 ventila		phtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	urer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away tightly clos	y from food and drink. Keep the containers osed.		
	The storage must be re		ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper in		



Page 5 of 17

Trading name:	METANIL YELLOW, SOLUTION				
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 contr	ols/perso	nal p	rotec	tion				
8.1 Control pa	arameters								
Substance		CA				Occupational exposure limit values/short term values		Biological limit values	
					ŗ	opm	mg/m³		
-				-	-	-			
Substance name:	-								
EC No:	-	CAS No	:	_					
DNEL									
					Ind	lustrial			
Route of	Acı	ute		Acut	te		Chronic		Chronic
exposure:	effect	local	effe	ct sys	stemic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
Critical physical pa	rameters: s	solubility,	flamm	nabilit	y, corr	rosivity:	-		
					Cor	nsumer			
Route of	A	cute		Acut	te	Chronic			Chronic
exposure:	effec	ct 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 sedime	nts					no information available			
Marine water						no information available			
Marine sediments						no information available			



Food chain

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

**Page 6 of 17** 

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

no information available

Microorga	anisms in sewage treatment		no information available	
Soil (agric	:ultural)		no information available	
Air			no information available	
8.2	Exposure controls			
8.2.1.	Appropriate engineering controls			
	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to prevent exposure:		In accordance with Section 7.	
	Organisational measures to prever exposure:	nt	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent exp	osure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment	ent		
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of levels of concentration in air; protective gas mask that cove entire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection			
	Hand protection:	-	otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min	
	Other skin protection:	footwe entire t impern	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.	
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No info	ormation available	
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Se	ction 6	



Page 7 of 17

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

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

Information on basic pl	nysical and o	chemical properties	
		Value	Method
Physical state:		liquid	No information available
Colour:		yellow	No information available
Odour/odour threshold	<b>:</b>	mild acetic like/no information available	No information available
Melting point / freezing	g point:	No information available	No information available
Boiling point or initial be point and boiling range	_	No information available	No information available
Flammability:		No information available	No information available
Lover and upper explos	ion limit:	No information available	No information available
Flash point:		No information available	No information available
Auto-ignition temperat	ure:	No information available	No information available
Decomposition temper	ature:	No information available	No information available
рН:		No information available	No information available
Kinematic viscosity:		No information available	No information available
Solubility:		No information available	No information available
Partition coefficient noctanol/water (log valu	e):	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			

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



Page 8 of 17

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

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

	exicological information on hazard classes		n Regulatio	n (EC) No 1272/20	nn8		
Acute t		us acilitea i	Tr Regulatio	11 (20) 140 1272/20			
Route of exposure:	Method Speci			e Dose LD <sub>50</sub> /LC <sub>50</sub> r ATE <sub>mixture</sub>	Exposure	time	Results
Oral:	No information available	_	No infor	mation available	_		_
Dermal: No information available -		-	No infor	mation available	_		-
Inhalation:	No information available	-	No infor	mation available	-		-
Specific	c target organ toxicity -	- single expo	sure (STOT	SE):			
	Specific	effects		Target orga	n		Note
Oral:	No information av	/ailable	No information available			-	
Dermal:	No information a	/ailable	No information available -				
Inhalation:	No information av	vailable	No	information avail	able	-	
Aspirat	ion hazard:	N	o informatio	on available.			
Irritatio	n and corrosion						
	Exposure t	ime	Species	Evaluation	Method		Note
Skin corrosion/irritati	ion:	-		-	<b>–</b>	-	
Serious eye damage/irritatio	on -	-		-	_	-	
Sensitiz	zation						
Skin sensitizatio	n: No infor	mation availa	able.				
Respiratory sens	sitization: No infor	mation availa	able.				



Page 9 of 17

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

Oral exposure: No information available.							
Dermal exposure	e: No infori	mation available.					
Inhalation expos	alation exposure: No information available.						
Eye exposure:	No infor	mation available.					
Repeate	ed dose toxicity	(subacute, subchro	onic, chronic)		,	,	
	Dose	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No informati available	No information available	No information available	No information available	No information available	-	
Subacute dermal	No informati available	on No information available	No information available	No information available	No information available	-	
Subacute inhalation	No informati available	on No information available	No information available	No information available	No information available	-	
Subchronic oral	No informati available	on No information available	No information available	No information available	No information available	-	
Subchronic dermal	No informati available	on No information available	No information available	No information available	No information available	-	
Subchronic inhalation	No informati available	on No information available	No information available	No information available	No information available	-	
Chronic oral	No informati available	on No information available	No information available	No information available	No information available	-	
Chronic dermal	No informati available	on No information available	No information available	No information available	No information available	<b>-</b>	
Chronic inhalation	No informati available	on No information available	No information available	No information available	No information available	-	



Page 10 of 17

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

Subacute	e oral	No information available			No information available	-		
Subacute	dermal	No information available			No information available	-		
Subacute	inhalation	No information available			No information available	-		
Subchror	chronic oral No information available				No information available	-		
Subchror	chronic dermal No information available				No information available	-		
Subchror	ochronic inhalation No information available				No information available	-		
Chronic c	oral	No information available			No information available	-		
Chronic c	dermal	No information available			No information available	-		
Chronic i	nhalation	No information available			No information available	-		
	CMR effects (c	arcinogenicity; mutagenicit	y; re	productive t	toxicity)			
(	Carcinogenicity:			sed on availa	ble data, the classification o	riteria are not met.		
	Mutagenicity in vitro:			Based on available data, the classification criteria are not met.				
	Genotoxicity:			ed on availa	able data, the classification o	criteria are not met.		
	Mutagenicity ii	n vivo:	Bas	ed on availa	able data, the classification o	criteria are not met.		
	Germ cell muta	agenicity:	Bas	sed on availa	able data, the classification o	criteria are not met.		
	Reproductive t	oxicity:	Based on available data, the classification criteria are not met.					
	Summary of properties:	evaluation of the CI	MR	Based on met.	available data, the classific	ation criteria are not		
11.2	Information or	n other hazards:						
11.2.1.	Endocrine disr	upting properties:						
	components c disrupting pro Article 57(f) regulation (EU	e/mixture does not cont onsidered to have endocr operties according to REA or Commission Delegar 1) 2017/2100 or Commiss 1) 2018/605 at levels of 0.1%	ine CH ted ion					
11.2.2.	Other informat	tions:						
	_							

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



Page 11 of 17

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

Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	_	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	_	_	_	-	-	-

#### 12.2 Persistence and degradability

Abiotic degradation

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

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

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



Page 12 of 17

Trading	g name:	METANIL YELLOW, SOLUTION										
Produc	ct code:	MY-C	)T-X**		Date	of co	mpilatio	on: 21 De	ec 2022	١	/ersion:	5
	3											
12.3	Bioaccum	ulative p	otential									
	Octanol-w	ater pai	tition coeff	icient (	log Kow	)						
Valu	e Co	ncentrat	tion p	Н	°C	M	ethod	Evalu	ation		Note	
-	-		-		-	-		-		-		
	Bioconcen	tration	factor (BCF)	1	1			i				
V	Value Species			N	Method	b	Evaluati	on		Note		
No info availabl	rmation	No	inform	ation	No info		on	No informati	on	-		
avallabi	le	availak	oie		availab	ie		available				
	Chronic ed	otovicit	V									
	Cilionic ec	.OtOxicit	<u>y</u>	Evr	osure							
	Value		Dose		ime	Spe	ecies	Method	Evalua	tion	Note	
				No		No		No	No			
Chronic	toxicity on	fish	LC <sub>50</sub>		mation		mation	information	informa		-	
				avail	able	availa	able	available	available	<b>e</b>		
	toxicity on		EC <sub>50</sub>	No infor	mation	No infor	mation	No information	No informa	tion	_	
crustac	ea ( <i>Daphnia</i>	)	2030	avail		availa		available	available			
12.4	Mobility in	soil										
	Known or	predicte	ed distribut	on in e	environm	ental o	compart	ments:				
	No inform	ation av	vailable									
	Surface te	nsion:										
	Value		°C	С	oncentra	tion		Method			Note	
	No	No		No	informa	tion	No inf	ormation				
	informatio		ormation ailable		ilable		availak		_			
	available	ave										
	I	<u> </u>		<u> </u>			<u> </u>					



Page 13 of 17

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

Transpo	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wa <sup>-</sup>	ter No information available	No information available	No information available	No information available	-
Water-a	No information available	No information available	No information available	-	
Soil-air	No information available	No information available	No information available	No information available	-
12.5	Results of PBT and vPvB asse				
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulation		
12.6.	Endocrine disrupting propert	ies			
	The substance/mixture does according to REACH Article 5 Regulation (EU) 2018/605 at	7(f) or Commission	n Delegated regulation		
12.7	Other adverse effects				
	No further relevant informati	on available.			
SECTIO	N 12 Dispesal sensideration				
13.1	N 13. Disposal consideration  Waste treatment methods	is			
13.1	Waste treatment methods				
13.1.1.	Product/Packaging disposa	ıl:			
	Submit for disposal to the Protection.	egal person autho	rized by the Ministry of	Environmental a	and Nature
13.1.2.	Waste codes/waste designate	ations according to	o Law:		
	15 01 10*: Packaging that c			is contaminated	l with hazardous
13.1.3.	Waste treatment – relevant				



Page 14 of 17

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

	No information available	
13.1.4.	Sewage disposal – relevan	t information:
	Waste must not be dispose	ed of into the sewage system.
13.1.5.	Other disposal recommend	dations:
	authorized by the ministry	duct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. Submit ctors authorized by the ministry in charge.
13.1.6.	Relevant Community provi	isions:
	Disposal must be made ac	cording to official regulations.
SECTIO	N 14. Transport information	1
	Transporting/shipment by ro	oad (ADR)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by ra	ail (RID)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	mentally hazardous:	-
Special	precautions for user:	-
	Inland waterway transport (A	ADN)
UN num	ber:	Not subject to transport regulations
UN prop	er shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environr	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by se	ea (IMDG)
UN num	ber:	Not subject to transport regulations



Page 15 of 17

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

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

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



Page 16 of 17

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

	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 assessme	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)	ised to derive the classification for mixture according to Regulation (EC)		
Classif	ication	Classification procedure		
-		-		
16.5.	Relevant H statements (numb	er and full text)		
	H: -	-		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product)  We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment



#### **SAFETY DATA SHEET**

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

Page 17 of 17

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

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