

OIL RED O KIT

The kit contains:

Basic activation buffer Formaldehyde NB 4% Hematoxylin ML Oil Red O reagent



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Trading name:	BASIC ACTIVATION BUFFER					
Product code:	BAP-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

SECTI	ION 1: Identification of t	he subst	ance/mixture a	and of the company/undertaking		
1.1.	Product identifier	Product identifier				
	Trading name:	BASIC A	ACTIVATION BU	FFER		
	Chemical name:	-				
	Catalogue number:	BAP-O1	Γ-X**			
1.2.	Relevant identified use	es of the s	substance or mi	xture and uses advised against		
	Uses:		For use with	Oil Red O kit.		
	Uses advised against:		Only the ider	ntified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection an	d Rescue	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or	mixture				
2.1.1.	Classification according to Regula	tion (EC) No 12	272/2008 (CLP)			
	Hazard class and category	code:		Hazard statements*:		
	Not identified as hazardous subst	ance.	-			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-sta	itements: see S	ection 16			
2.2.	Label elements					
	Product identification:	BASIC ACTIV	ATION BUFFER			
	Identification number:	-				
	Authorization no.:	-				
	Hazard pictograms:	-				



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Further information:	-		
2.3.	Other hazards			
	Endocrine Disrupting Propertie	25:		
	No known endocrine disrupting properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.			

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

SECTI	ON 4. First aid measures			
4.1.	Description of first aid measures			
	General notes:		-	
	Following inhalation:		No information available	
	Following skin contact:		No information available	
	Following eye contact: Following ingestion:		No information available No information available	
4.2.	Most important symptoms and effects, both acute and delayed		fects, both acute and delayed	
	Following inhalation: No		information available	
	Following skin contact:	No	information available	
	Following eye contact:	No	information available	
	Following ingestion:	No	information available	
4.3.	Indication of any immedia	te medi	cal attention and special treatment needed	
	-			

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



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Unsuitable extinguishing media: water jet
Special hazards arising from the substance or mixture
Hazardous combustion products: No information available
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.
Additional information
Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.

SECTIO	ON 6. Accidental release meas	ures			
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne	el			
	Protective equipment:	l	Use personal protective equipment (see Section 8).		
	Accident prevention methods	s: I	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:	I	Mark the area using proper signs.		
6.1.2.	For emergency responders:				
	Wear protective equipment (s	see Section	n 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 cor	ntainment a	and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or d	clay barriers.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.			
6.3.3.	Other information:	-			
6.4.	Reference to other sections				
	See Section 7 for information See Section 8 for information See Section 13 for informatio	about per	sonal protective equipment.		



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

SECTION 8. Exposure controls/personal protection							
8.1. Control	parameters						
Substance		CAS No Occupational exposure limit values/short term values		Biological limit values			
			ppm	mg/m ³			
-		-	-	-	No information available		
Substance							



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Product co	de:	BAP-OT-X** D		Date o	f compilat	ion:	21 Dec 2022	Version:	4	
			1	:	:	•		:	1	:
EC No:	-		CAS No:	-						
DNEL										
					Ind	lustrial				
Route of		ŀ	Acute		Acute	e		Chronic	Chro	nic
exposure:		effe	ect local	6	effect sys	temic		effect local	effect sy	stemic
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-			-		-	
Critical phys	sical par	ameters: s	solubility, fla	mmal	bility, cor	rosivity:	-			
					Сог	nsumer				
Route of		ŀ	Acute		Acute	e		Chronic	Chro	nic
exposure:		effe	ect local	e	effect sys	temic		effect local	effect sy	stemic
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-			-		-	
PNEC										
Environmen	tal prot	ection tar	get			PNEC				
Fresh water						No inform	nation	available		
Freshwater s	sedimer	nts				No information available				
Marine wate	er					No information available				
Marine sedi	ments					No information available				
Food chain						No information available				
Microorgan	isms in s	sewage tr	eatment			No information available				
Soil (agricul ⁻	tural)					No inform	nation available			
Air						No inform	nation	available		
8.2.	Exposu	re contro	ls							
8.2.1.	Approp	oriate eng	ineering coi	ntrols						
	Substa	nce/mixtu	ire related		llco tho	product in	wall	optilated rooms	co porconal a	otoctivo
	measures to prevent exposure				•		ventilated rooms. U drink or smoke in th	• •	olective	
	_	identified					• -	-	• • • • •	
		ructural measures to prevent No ir kposure:				No information available				
	-	sational n t exposure	neasures to e:		-	anization of work in order to reduce other worker's influence ing work process.				
	Techni	cal measu	res to preve	nt	Secure	proper worl	kspace	e ventilation in ord	•	
	exposure: conc			concent	concentration levels in air below permitted levels.					



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8.2.2.	Personal protection equip	oment				
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection					
			ive gloves must be according to the EU Directive 2016/425/EEC and rd EN 374.			
	Hand protection:		Glove material: nitrile rubber			
			Glove thickness: ≥0.50 mm			
			Break through time: >480 min			
	Other skin protection:		Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with 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 info	rmation 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 prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to prevent exposure:		See Section 6			

SECTION 9. Physical and chemical properties						
9.1.	Information on basic physical and chemical properties					
		Value	Method			
	Physical state:	liquid	No information available			
	Colour:	colorless	No information available			
	Odour/odour threshold:	No information available	No information available			
	Melting point / freezing point:	No information available	No information available			
	Boiling point or initial boiling point and boiling range:	No information available	No information available			
	Flammability:	No information available	No information available			
	Lover and upper explosion limit:	No information available	No information available			
	Flash point:	No information available	No information available			
	Auto-ignition temperature:	No information available	No information available			



Particle characteristics:

Other information

9.2.

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No information available

				Fage / OF TO				
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Decomp	osition temperature:	No information availab	No info	ormation available				
pH:		No information availab		ormation available				
Kinemat	ic viscosity:	No information availab	ole No info	ormation available				
Solubility	y:	No information availab	ole No info	ormation available				
Partition (log valu	coefficient n-octanol/water e):	No information availab	ble No info	ormation available				
Vapour p	pressure:	No information availab	ole No info	ormation available				
Density a	and/or relative density:	No information availab	ole No info	ormation available				
Relative	vapour density:	No information availab	ole No info	ormation available				

No information available

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

SECTION 11. Toxicological information								
11.1. Infor	Information on toxicological effects							
Acut	e toxicity	y:						
Route of exposure:		Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results		
Oral exposure:		No information available	-	LD ₅₀	-	-		
Dermal expos	sure:	No information available	-	LD ₅₀	_	-		
Inhalation exposure:		No information available	-	LC ₅₀	-	-		
Specific target organ toxicity – single exposure (STOT SE):								
		Specific e	ffects	Target orga	n	Note		



Page 8 of 16 Trading name: **BASIC ACTIVATION BUFFER** Product code: **BAP-OT-X**** Date of compilation: 21 Dec 2022 Version: 4 Oral exposure: No information available No information available _ Dermal exposure: No information available No information available _ No information available Inhalation exposure: No information available _ Respiratory irritation: No information available Irritation and corrosion Exposure time Evaluation Species Method Note Skin irritation: _ _ _ _ _ Eye irritation: _ _ _ _ _ Sensitization Dermal exposure: No information available Inhalation No information available exposure: Symptoms related to the physical, chemical and toxicological characteristics Oral exposure: No information available Dermal exposure: No information available Inhalation No information available exposure: Eye exposure: No information available Repeated dose toxicity (subacute, subchronic, chronic) Exposure Method **Evaluation** Dose Species Note time No No No No information No information information information informatio Subacute oral available available available available n available No No No No information No information Subacute information information informatio dermal available available available available n available No No No Subacute No information No information information information informatio available available inhalation available available n available No No No No information No information Subchronic oral information information informatio available available available available n available



Mutagenicity *in-vivo*: Germ cell mutagenicity:

Reproductive toxicity:

Summary of evaluation of the CMR properties:

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Subchronic dermal	No information available	No information available	No information available	No informatio n available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic oral	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic dermal	No information available	No information available	No information available	No informatio n available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No informatio n available	No information available	-

Specific target organ toxicity – repeated exposure (STOT RE):						
	Specific e	effects	Target organ	Note		
Subacute oral	No information a	available	No information available	-		
Subacute dermal	No information a	available	No information available	-		
Subacute inhalation	No information a	available	No information available	-		
Subchronic oral	No information a	available	No information available	-		
Subchronic dermal	No information available		No information available	-		
Subchronic inhalation	No information available		No information available	-		
Chronic oral	No information available		No information available	-		
Chronic dermal	No information available		No information available	-		
Chronic inhalation	No information available		No information available	-		
CMR effects (ca	arcinogenicity, mut	tagenicity, repi	roductive toxicity)			
Carcinogenicity	Carcinogenicity: No		No information available			
Mutagenicity ir	Mutagenicity in-vitro:		No information available			
Genotoxicity:		No information available				

No information available No information available

No information available

No information available

-



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

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



Chronic toxicity on

 EC_{50}

No

No

No

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No information

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										rage		
Trading nam	ie:		BASIC ACTIV					ATION BUFFER				
Product cod	ode: BAP-OT-X**				Date	Date of compilation:			2022	Versic	on: 4	
i												
Abio	tic de	gradatic	on									
	D	egradat	ion half-l	ives		Method			Evaluatior	า	Note	
Marine water	No	informa	nformation available		No info	rmation availab	le	No inform	ation ava	ilable	-	
Fresh water	No	informa	tion avail	able	No info	rmation availab	le	No inform	ation ava	ilable	-	
Air	No	informa	tion avail	able	No info	rmation availab	le	No inform	ation ava	ilable	-	
Soil	No	informa	tion avail	able	No info	rmation availab	le	No inform	ation ava	ilable	-	
					2						I	
Biode	egrad	ation										
% Degradatio	on	Tim	ne (days)		М	lethod		Evaluatio	n	Ν	lote	
No informatic	n ľ	No	informa	tion	No inforn	nation	No	o informatio	on N	lo informa	ation	
available	ā	available	2		available		ava	ailable	а	ivailable		
12.3. Bioad	cumu	ılative p	otential									
Partit	tion c	oefficier	nt: n-octa	nol/w	ater (log K	ow):				1		
Value	Cor	ncentrat	ion	рН	°C	Method		Evalua	ation		Note	
_	No	inform	ation _		_	No information	I	No inform	ation	-		
	availa	ble				available		available				
	oncen		actor (BC	F)								
Value			Species			1ethod	Evaluation				Note	
No informatic available	on	No availab	informa	ation	No inforr available	nation		o informatio ailable	on	No infor available		
avaliable		availab	vie		avaliable		av	allable		availabit	5	
Chro	nic ec	otoxicit	v									
Valu		<u> </u>	Dose		Exposure time	Species		Method	Evalu	lation	Note	
Chronic toxici	ty on	fish	LC ₅₀			No information available		o formation ailable	No infor available		-	
				·····								



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crustac	ea (De	aphnia)			infor avail	mation able	infor availa	mation able		rmation lable	available		
12.4.	Mol	oility in	soil										
	1	-		ed distributi	on in e	environm	nental	compart	ment	s:			
		' informa											
		ace ten											
	· ·	Value		°C	(Concentr	ation		Ν	Vethod		No	te
	No information available		n i	informatio ailable	No		on	No inf	orma	tion avail	able	-	
	Ads	orption	/ deso	orption									
Transpo	ort		′D coef nry's co	ficient onstant	log Kow			Evaporation rate		rate	Method	Ν	ote
Soil-wa	iter	No availal				No information available		o inform ⁄ailable	nation		No information available	1 -	
Water-	air	No availal			No information available			o inform vailable	nation	I	No information available) -	
Soil-air		No availa				No information available		No information available		1	No information available	1 -	
	1											1	
12.5.	Res	ults of I	PBT and	d vPvB asses	sment	t							
	ассо	ording t	o REAC		7(f) or	Commis	sion D	elegated			e endocrine U) 2017/210		
12.0	ار م	o orize e	diamont	ing propert									
12.6.			•	ing properti		atain cor	nnona	nts cons	idoro	d to have	ondocrino	disrupting	roportion
	ассо	ording t	o REAG		7(f) or	Commis	sion D	elegated			e endocrine (U) 2017/210		
	9		,	-,			.9.1	-					
12.7.	Oth	er adve	rse effe	ects									
	No	informa	ition av	vailable									



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SECTIO	N 13. Disposal considerat	ions
13.1.	Waste treatment metho	ds
	-	
13.1.1.	Product/Packaging disp	osal:
	-	ne legal person authorized by the Ministry of Environmental and Nature
	Protection.	
13.1.2.	Waste codes/waste desi	gnations according to Law:
	No information available	
13.1.3.	Waste treatment – relev	ant information:
	No information available	2
13.1.4.	Sewage disposal – releva	ant information:
	Waste must not be disp	osed of into the sewage system.
13.1.5.	Other disposal recomme	endations:
	authorized by the minist	roduct's remains into the sewage system. Submit the remains to the collectors cry in charge. Do not dispose of the packaging into the sewage system. Submit llectors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community pro	ovisions:
	-	
SECTIO	N 14. Transport informati	ion
	Transporting/shipment by	road (ADR)
UN num	ıber:	Not subject to transport regulations.
UN prop	per shipping name:	-
Transpo	rt hazard class(es):	-
Packing	group:	-
Environ	mentally hazardous:	-
Special	precautions for user:	-
	Transporting/shipment by	
UN num		Not subject to transport regulations.
UN prop	per shipping name:	-



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Transport hazard c	lass(es):	-				
Packing group:		-				
Environmentally ha	azardous:	-				
Special precaution	s for user:	-				
Inland wat	terway transport (Al	DN)				
UN number:		Not	subject to transport regu	llations.		
UN proper shippin	g name:	-				
Transport hazard c	lass(es):	-				
Packing group:		-				
Environmentally ha	azardous:	-				
Special precaution	s for user:	-				
Transport	ing/shipment by sea	a (IMDG)				
UN number:		Not	subject to transport regu	lations.		
UN proper shippin	g name:	-				
Transport hazard c	lass(es):	-				
Packing group:		-				
Environmentally ha	azardous:	-				
Special precautions	s for user:	-				
Transport	ing/shipment by air	(ICAO-T	I/IATA-DGR)			
UN number:		Not	subject to transport regu	llations.		
UN proper shippin	g name:	-				
Transport hazard c	lass(es):	-				
Packing group:		-				
Environmentally ha	azardous:	-				
Special precautions	s for user:	-				
Further information	n: -					

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



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Trading name:		BASIC ACTIVATIO	N BUFFER				
Product code:	BAP-OT-X**	Date of compilation:	Date of compilation: 21 Dec 2022 Version:				
Other EU	regulations:	Regulation (EC) No 1907/2006 of th 18 December 2006 concerning the Restriction of Chemicals (REACH), amending Directive 1999/45/EC and and Commission Regulation (EC) 76/769/EEC and Commission Direct 2000/21/EC; Directive 2004/42/CE of the European on the limitation of emissions of vo organic solvents in certain paints and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April of workers from the risks related to ch Regulation (EC) No 1272/2008 of the December 2008 on classification, mixtures, amending and repealing amending Regulation (EC) No 1907/2 REACH Restrictions on the manufact	e Registration, Evalue establishing a Euro repealing Council Re No 1488/94 as we tives 91/155/EEC, 93 n Parliament and of the olatile organic comp I varnishes and vehicl 1998 on the protection hemical agents at wor European Parliamen labelling and packa Directives 67/548/El 006;	aation, Authorisation and opean Chemicals Agency, egulation (EEC) No 793/93 ell as Council Directive 3/67/EEC, 93/105/EC and the Council of 21 April 2004 oounds due to the use of e refinishing products and on of the health and safety rk; t and of the Council of 16 aging of substances and EC and 1999/45/EC, and			

REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);

Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOCguideline) Chemicals Act. Regulation on classification, packaging and labeling of

National legislation:	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
	Chemicals Act, Regulation on classification, packaging and labeling of

Chemical safety assessment None

15.2.

SECTION 16. Other information 16.1. Indication of changes: 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 16.2. Abbreviations and acronyms: 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



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Trading name:		BASIC ACTIVATION BUFFER							
Product code:	BAP-OT-X**	Date of compilation:	21 Dec 2022	Version: 4					

16.3.	Key literature references and source of data:	-
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classifi	cation	Classification procedure
-		-
16.5.	Relevant H statements (num	ber and full text)
	H: -	-
16.6.	Training advice:	-
		** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX:

Exposure scenario resulting to Chemical safety assessment

-



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

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Trading name:		4% NB FORM			
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:	6

1.1	Product identifier					
	Trading name:	4% NB FOF	RMALDEHYD)E		
	Chemical name:	-				
	Catalogue number:	FNB4-X**				
1.2	Relevant identified us	es of the subs	tance or mix	xture and uses advised against		
	Uses:		Fixative fo	r use in histology.		
	Uses advised against:		Only the i	dentified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039			
	e-mail of competent p	person:	msds@biognost.hr			
	National contact:		-			
1.4	Emergency telephone	number				
	National Protection ar	nd Rescue Dir	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	ON 2 HAZARDS INFORMATION				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to (EC) Regulation N	o. elements			
	Hazard class and category code:	Hazard statements*:			
	Acute Tox. 4	H302			
	Acute Tox. 4	H312			
	Acute Tox. 4	H332			
	Skin Sens. 1	H317			
	Muta. 2	H341			
	Carc. 1B	H350			
2.1.2.	Additional information				
	-				
*For fu	Ill text of Hazard- and EU Hazard-statements: se	ee Section 16			



2.2

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

Page 2 of 18 Trading name: **4% NB FORMALDEHYDE** Product code: FNB4-X** Revision date: 21 Dec 2022 Version: 6 Label elements 4% NB FORMALDEHYDE (10% neutral buffered and stabilized formalin Product identification: solution, pH 7.0) Identification number: -Authorization no.: _ Hazard pictograms: Signal word: Danger Harmful if swallowed. H302 H312 Harmful in contact with skin. May cause an allergic skin reaction. H317 Hazard statements: Harmful if inhaled. H332 Suspected of causing genetic defects. H341 H350 May cause cancer. P280 Wear protective gloves/protective clothing/eye/protection/face protection. , D201 , D212 IE SWALLOWED: Call a DOISON CENTER / doctor if a

	Precautionary statements:	 P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of water. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. 	
	Further information:	-	
2.3	Other hazards		
	This substance/mixture contains no components considered to be either persistent, bioaccumulative a toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		

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)	



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

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Trading name:				4% NE	B FORM	ALDEHYDE			
Product code:		FNB4-X**	Revision da		te:	21 Dec 2022		Version:	6
50-00-0/ 200-001-8/ 605-001-00-5		-2119488953-20- XX	3 – 5 9	%	formald	ehyde, 37 %	Acute To Acute To Skin Cor		
67-56-1/ 200-659-6/ 603-001-00-X		-2119433307-44- XX	1 – 3	%	methan	ol	Acute To Acute To	j. 2; H225 ox. 3; H301 ox. 3; H311 ox. 3; H331 1; H370	

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 oral cavity, drink 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.		
	Self-protection of the first aider:	-		
4.2	Most important symptoms and effects, both acute and delayed			
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.		
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.		
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.		
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.		
4.3	Indication of any immediate medi	cal attention and special treatment needed		



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Trading name:		4% NB FOR	MALDEHYDE		
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:	6

SECTIO	SECTION 5 FIREFIGHTING MEASURES				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	No information available			
5.2	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	Not flammable. Surrounding fire may cause hazardous fumes to be released.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit of	compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Do not contaminate the environm	ent with extinguishing media.			

SECTIO	ON 6 ACCIDENTAL RELEASE M	EASURES		
6.1	Personal precautions, protecti	ve equipment and emergency procedures		
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke.		
	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, Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National brate (NPRD) on 112.		
6.3	Methods and material for con	tainment 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 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:	Do not use incompatible materials (see Section 10).		



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

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Trading name:		4% NB FORM	ALDEHYDE	
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:

6

6.4	Reference to other sections
	-

7.1	Precautions for safe handling							
7.1.1.	Protection measures							
	Measures to prevent fire:		Use in well ventilated storage rooms.					
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.					
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.					
	Other measures:		-					
7.1.2.	Advice on general occupational hygiene:							
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eati							
7.2	Conditions for safe storage, including any incompatibilities							
	Technical measures and storage conditions:	well venti	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.					
	Packaging materials:		Manufacturer's original packaging. Avoid metal containers.					
	Requirements for storage rooms and vessels:		Keep away from food and drink. Keep the containers ightly 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:	and do no chemicals	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									
3.1 Control parameters									
Substance	CAS No	Occupational values/short	exposure limit term values	Biological limit values					
		ppm	mg/m ³	-					



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								rage o or ro				
Trading name:	ing name: 4%						% NB FORMALDEHYDE					
Product code:	FNB4->	4-X**		Revision	date:	21 Dec 2	022	Version:	6			
				•				1				
Formaldehyde		50)-00-0	0.3/	0.6	0.37/0.74	-					
Methanol		67	'-56-1	200)/-	260/-	-					
Substance name:	-					•						
EC No:	-	CAS No	o: -									
DNEL												
				Indu	strial							
Route of	Αςι	ute	Acu	ite		Chronic		Chronic				
exposure:	effect	local	effect sy	rstemic		effect local		effect systemic				
Oral	-		-		-			-				
	0.75 mg, (formald		130 mg/r	n ³		mg/m ³		9 mg/m ³ (formaldehyde)				
Inhalation	130 mg/m ³ (metha (methanol)			(tormalden/de)		ol)	130 mg/m ³ (methanol)					
, , , , , , , , , , , , , , , , , , , ,		01)	20 mg/kg		0.037 mg/cm ²			240 mg/kg (formaldehyde)				
Dermai	Dermal - (methan				(forma	aldehyde)		20 mg/kg (methanol)				
Critical physical par	rameters: s	solubility,	, flammabili	ty, corro	sivity:	-						
				Cons	umer							
Route of	Ac		Acut	te		Chronic		Chronic				
exposure:	effect	local	effect sys	stemic		effect local		effect systemic				
Oral	-		4 mg/kg (methanol)		-			4.1 mg/kg (formaldehy 4 mg/kg (methanol)	/de)			
	26 mg	/m ³	26 mg/m^3		0.1 m	ng/m³		3.2 mg/m ³ (formaldehy	(do)			
Inhalation	(metha		(methanol)		(formaldehyde) 50 mg/m ³ (methanol)		I)	26 mg/m ³ (methanol)				
Dermal	_		4 mg/kg	4 mg/kg		0.012 mg/cm ²		102 mg/kg (formaldeh	yde)			
			(methanol)		(formaldehyde)			4mg/kg (methanol)				
PNEC												
Environmental prot	tection tar	get			PNEC							
Fresh water					0.44 mg/l (formaldehyde)							
					20.8 mg/l (methanol)							
Freshwater sedime	nts				2.3 mg/kg (formaldehyde) 77 mg/kg (methanol)							
Marine water						mg/l (formaldel						
						ng/l (methanol						
Marine sediments						g/kg (formalde g/kg (methano	•					
Food chain					No information available							



exposure:

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Page 7 of 18 Trading name: **4% NB FORMALDEHYDE** Product code: Revision date: 21 Dec 2022 Version: 6 FNB4-X** 0.19 mg/l (formaldehyde) Microorganisms in sewage treatment 100 mg/l (methanol) 0.2 mg/kg (formaldehyde) Soil (agricultural) 100 mg/kg (methanol) No information available Air 8.2 Exposure controls 8.2.1. **Engineering measures** Use the product in well ventilated rooms. Use personal Substance/mixture related measures to protective equipment. Do not eat, drink or smoke in prevent exposure during identified uses: the workspace. In accordance with Section 7. Structural measures to prevent exposure: Organization of work in order to reduce other worker's Organisational measures to prevent exposure: influence during work process. Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Technical measures to prevent exposure: Secure stations for rinsing eyes and showering. 8.2.2. Personal protection equipment Safety glasses that stick to face (EN 166) or visor in case of lower 8.2.2.1. Eye and face protection: 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 Hand protection: Protective nitrile gloves, 0.11 mm thick (EN 374). Wear antistatic clothing made of natural fibers (such as cotton) Other skin protection: with long sleeves (EN 340) and shoes that cover the entire foot. Suitable mask (EN 136) or half mask (EN 140) equipped with a 8.2.2.3. combined "A1 + Form" filter (EN 143) used when concentration Respiratory protection: levels exceed GVI. 8.2.2.4. Thermal hazards: No information available 8.2.3. Environmental exposure controls Substance/mixture related See Section 6 measures to prevent exposure: Structural measures to prevent Use modern equipment. exposure: Organisational measures to Adapt the work process to the required working conditions of the prevent exposure: workplace. Technical measures to prevent See Section 6



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Trading name:	4% NB FORMALDEHYDE							
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:	6			

9.1	Information on basic physical and chemical properties									
		Value	Method							
	Physical state:	liquid	No information available							
	Colour:	colorless	No information available							
	Odour/odour threshold:	sharp/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:	cca 100 °C at 1,013 hPa	No information available							
	Flammability:	No information available	No information available							
	Lover and upper explosion limit:	No information available	No information available							
	Flash point:	Not applicable	No information available							
	Auto-ignition temperature:	No information available	No information available							
	Decomposition temperature:	No information available	No information available							
	pH:	6.8-7.2 (neutral buffered)	No information available							
	Kinematic viscosity:	No information available	No information available							
	Solubility:	completely soluble in water	No information available							
	Partition coefficient n- octanol/water (log value):	No information available	No information available							
	Vapour pressure:	No information available	No information available							
	Density and/or relative density	No information available	No information available							
	Relative vapour density:	No information available	No information available							
	Particle characteristics:	No information available	No information available							
9.2	Other information									

SECTIO	SECTION 10 STABILITY AND REACTIVITY							
10.1	Reactivity:	See subsections 10.3 through 10.5.						
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).						
10.3	Possibility of hazardous reactions:	Acids, nitrogen oxides, hydrogen peroxide, oxidizing agents, polymerization initiators, alkaline metals.						
10.4	Conditions to avoid:	Heat sources, low temperatures.						
10.5	Incompatible materials:	Various metals, alloys, plastic, magnesium, zinc alloys.						



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Trading name:					
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:	6

Hazardous decomposition products: 10.6

No information available.

SECTION 11 T	OXICOLOGI	CAL INFO	RMATION						
11.1 Inform	nation on to:	kicologica	effects						
Acute	toxicity:								
Route of exposure:	Met	hod	Species	Do	se LD ₅₀ , ATE _n	/LC ₅₀ or	Exposure ti	me	Results
Oral:	-		rat		LD ₅	0	No informa [:] available		100 mg/kg (formaldehyde) 100.1 mg/kg (methanol)
Dermal:	-		rabbit		LD₅	0	No informa available		270 mg/kg (formaldehyde) 300.1 mg/kg (methanol)
Inhalation:	nalation: - rat		rat		LC ₅	D	4 h		0.57 mg/l (formaldehyde) 3.1 mg/l (methanol)
Specif	ic target org			posure (S	TOT SE)				
			fic effects			Target orga			Note
Oral:		formation		No information				-	
Dermal:		formation		No information a				-	
Inhalation:	No in	formation	available	No information available -					
Aspira	tion hazard:			No inform	nation a	available.			
Irritati	on and corro								NI .
Skin corrosion/irrita	tion:	Exposure	e time	Speci rabbit	es	Evaluation	Method -	No	Note skin irritation.
Serious eye damage/irritation			rabbit			-	-	No	eye irritation.
Sencit	ization								
Schart									
Skin sensitizatio	on:	Mav ca	ause allergic	skin reac	tion.				



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Trading name:	4% NB FORMALDEHYDE									
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:	6					

Sympto	ms related t	o the ph	nysical, chemic	al and toxicolog	ical characterist	ics			
			, severe burns of the mouth and throat, as well as a danger of perforation of the and the stomach.						
Dermal exposure	י וּ			•	e time, redness a n cracking and r	iccompanied by ash.	sensation of		
Inhalation expos	uro ·			•	e time, it may lea mage of respirat	ad to mucosal irr ory tract	itations, cough,		
Eye exposure:	•	ending o of blindi		on and exposure	e time, it may lea	ad to stinging, te	aring, and pain		
Repeate	ed dose toxic	city (sub	acute, subchro	onic, chronic)					
	Dose	e	Exposure time	Species	Method	Evaluation	Note		
Subacute oral	No infori available	mation	No information available	No information available	No information available	No information available	-		
Subacute dermal	No infori available	mation	No information available	No information available	No information available	No information available	-		
Subacute inhalation	No infori available	mation	No information available	No information available	No information available	No information available	-		
Subchronic oral	No infori available	mation	No information available	No information available	No information available	No information available	-		
Subchronic dermal	No infori available	mation	No information available	No information available	No information available	No information available	-		
Subchronic inhalation	No infori available	mation	No information available	No information available	No information available	No information available	-		
Chronic oral	No infori available	mation	No information available	No information available	No information available	No information available	-		
Chronic dermal	No infori available	mation	No information available	No information available	No information available	No information available	-		
Chronic inhalation	No infori available	mation	No information available	No information available	No information available	No information available	-		



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

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Trading name:	4% NB FORMALDEHYDE								
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:	6				

		Specific effects	Target organ	Note		
Subacute oral No information available			No information available	-		
Subacu	ite dermal	No information available	No information available	-		
Subacu	ite inhalation	No information available	No information available	-		
Subchr	onic oral	No information available	No information available	-		
Subchr	onic dermal	No information available	No information available	-		
Subchr	onic 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	c inhalation	No information available	No information available	-		
	Genotoxicity: Mutagenicity <i>in vivo</i> : Germ cell mutagenicity: Reproductive toxicity:		No information availableNo information availableNo information availableNo information available			
	Summary of ev	valuation of the CMR properties:	No information available			
11.2	Information or	n other hazards:				
11.2.1.	1. Endocrine disrupting properties:					
	components disrupting proj 57(f) or Comm 2017/2100 or	ce/mixture does not contain considered to have endocrine perties according to REACH Article hission Delegated regulation (EU) Commission Regulation (EU) vels of 0.1% or higher.				
	2018/605 at levels of 0.1% or higher. . Other informations:					

SECTIO	SECTION 12 ECOLOGICAL INFORMATION:					
12.1	Toxicity					



Soil

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Trading name:	4% NB FORMALDEHYDE					
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:	6	

Acute (short-term) toxicity		Dose	Exposur time	e Species	Method	Eval	uation	Note
Fish		LC ₅₀	96 hours	fish (Morone saxatilis)	_	(forma 15.4	' mg/l aldehyde) 00 mh/l thanol)	-
Crustacea:		EC ₅₀	48 hours	water flea (Daphnia magna)	-	(forma 18.26	s mg/l Ildehyde) 60 mg/l thanol)	-
Algae/aquatic plants		IC ₅₀	4 days	green algae	-	(forma) 22.00	9 mg/l Ildehyde) 00 mg/l thanol)	-
Other organisms		-	-	-	-	-		-
Chronic (long-te toxicity	Chronic (long-term) toxicity		Exposur time	e Species	Method	Evaluation		Note
Fish		LC ₅₀	96 hours	No information available	No information available	No info availab	ormation le	-
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No info availab	ormation le	-
Algae/aquatic plants		IC ₅₀	72 hours	No information available	No information available	No info availab	ormation le	-
Other organisms	S	-	-	-	-	-		-
		nd degradab	ility					
Abiotic								
Deo		gradation ha	lf-lives	Method	Evaluati			Note
Marine water No in		nformation av	vailable	No information available	No informationavailable	on	-	
Fresh water	No ir	nformation av	vailable	No information available	No informatio available	on	-	
Air	No ir	nformation av	vailable	No information available	No information		-	

No information

available

No information available

No information

available

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Trading name:	4% NB FORMALDEHYDE				
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:	6

Daccumu rtition c Cou	o informa ulative po	: n-octanc			Method Formation ple		Evaluatio informatic ilable		No info availab	Note ormation ole
Daccumu rtition c Cou	ulative po oefficient	tential :: n-octanc						'n		
rtition c Coi -	oefficient	: n-octanc								
		•	Η	°C	Method			Jation		Note
		-			formaldehyd	e	-		-	
-		-		-	methanol		-		-	
					Mathad		Ev al+	ion		Nota
						NL				Note
	-			available			available		-	
ironic ec	cotoxicity									
/alue		Dose	Exposure time		Species	٦	Method	Evalu	ation	Note
Chronic toxicity on fish		LC ₅₀	No information available		No informatio available	n in	formatio			-
Chronic toxicity on crustacea (<i>Daphnia</i>)		EC ₅₀	No information available		No informatio available	n in	formatio			-
-		l dictributi	on in c	nvirona	oental comp	rtma	ntc:			
	•		onine		nentai compa	artiner	1115.			
		navie								
		°C	· · ·				1 - + !			Note
	ronic ed ronic ed alue icity on icity on Daphnia	e Information available	e Species tion No inform available ronic ecotoxicity alue Dose icity on fish LC50 icity on fish LC50 icity on Or predicted distribution own or predicted distribution o information available rface tension:	tion No information available ronic ecotoxicity 'alue Dose Exp ti icity on fish LC_{50} No information available own or predicted distribution in e p information available rface tension:	Species No tion No information No information available available available rronic ecotoxicity Dose Exposure time 'alue Dose No icity on fish LC50 No icity on Daphnia) EC50 No own or predicted distribution in environne o information available available	Species Method tion No information available No information available ronic ecotoxicity Dose Exposure time Species 'alue Dose Exposure time Species icity on fish LC ₅₀ No information available No information available No information available icity on Daphnia) EC ₅₀ No information available No information available obility in soil Output Image: Species No own or predicted distribution in environmental compa- poinformation available Image: Species Image: Species operation available Image: Species No No Image: Species own or predicted distribution in environmental compa- poinformation available Image: Species Image: Species own or predicted distribution in environmental compa- poinformation available Image: Species Image: Species own or predicted distribution in environmental compa- poinformation available Image: Species Image: Species	Species Method tion No information No information N available available available available available ronic ecotoxicity Dose Exposure time Species I ralue Dose Exposure time Species I icity on fish LC50 No No No n icity on Dophnia) EC50 No No n n obility in soil own or predicted distribution in environmental compartmental co	Species Method Evaluat tion No information available No information available No information available No information available No information available No ronic ecotoxicity Dose Exposure time Species Method icity on fish LC ₅₀ No information available No information available No information available No information available No information available No information available obbility in soil EC ₅₀ No information available No information available No information available No information available own or predicted distribution in environmental compartments: Differention information available Image: Species Method provide the species No No No No No own or predicted distribution in environmental compartments: Differention Image: Species Image: Species own or predicted distribution in environmental compartments: Image: Species Image: Species Image: Species own or predicted distribution in environmental compartments: Image: Species Image: Species Image: Species own or predicted distribution Image: Species <	Species Method Evaluation tion No information available No information available No information available ronic ecotoxicity Dose Exposure time Species Method Evaluation ronic ecotoxicity Dose Exposure time Species Method Evaluation icity on fish LC ₅₀ No No information available No No icity on Daphnia) EC ₅₀ No No No No No own or predicted distribution in environmental compartments: o information available available own or predicted distribution in environmental compartments: o information available information	e Species Method Evaluation tion No information available No information available No information available available available Species No No ronic ecotoxicity Dose Exposure time Species Method Evaluation ronic ecotoxicity Dose Exposure time Species Method Evaluation icity on fish LC ₅₀ No No no no information available available icity on cophnia) EC ₅₀ No No No no information available available available own or predicted distribution in environmental compartments: out of the stribution in environmental compartments: information available available oinformation available information available information available information available information available



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								ſ	age 14 01 10	
Trading name:		me:		49	6 N	B FORMALDE	HYDE			
Produ	ct co	de:	FNB4-X**	Revisio	n da	ate: 21 D	ec 2022		Version:	6
		ormation ilable	No information available	No information available	tion No information available		n	-		
	Ads	sorptior	n / desorption							
Transpo	ort		/D coefficient enry's constant	log Kow	E١	vaporation rate	Meth	nod	Note	
Soil-wa	ater	No availa	information ble	No information available		o information vailable	No inforn available	nation	-	
Water-	air	No availa	information ble	No information available		o information vailable	No inforn available	nation	-	
Soil-air	-	No availa	information ble	No information available	No information available		No information available		-	
12.5.	Res	ults of I	PBT and vPvB asse	ssment						
			nce/mixture conta , or very persistent	•			•			e and
12.6.	Enc	locrine	disrupting propert	ies						
	асс	ording	nce/mixture does to REACH Article 5 (EU) 2018/605 at	7(f) or Commission	n De	elegated regulat				
12.6.			erse effects							
	No	informa	ation available							
SECTIC	DN 13	DISPC	SAL CONSIDERA	TIONS						
13.1	W	/aste tre	eatment methods							
13.1.1.	P	roduct/	Packaging disposa	l:						
		ubmit fo rotectio	or disposal to the l n.	egal person autho	rize	d by the Ministr	y of Enviror	nmental	and Nature	
13.1.2.	١٨	laste co	odes/waste designa	ations according to	יבן ר	\\\/.				
13.1.2.			g that contains res				aminated w	vith haza	ardous substa	nces
	•									



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Trading name:	4% NB FORMALDEHYDE						
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:	6		

13.1.3.	Waste treatment – releva	nt information:			
	No information available				
13.1.4.	Sewage disposal – releva	nt information:			
	Waste must not be dispo	sed of into the sewage system.			
13.1.5.	Other disposal recomme	ndations:			
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.				
13.1.6.	Relevant Community pro	visions:			
	-				
SECTION	14 TRANSPORT INFORM	1ATION			
	Transporting/shipment by	road (ADR)			
UN num	ber:	Not applicable			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing	group:	-			
Environn	nentally hazardous:	-			
Special p	precautions for user:	-			
	Transporting/shipment by	rail (RID)			
UN num	ber:	Not applicable			
UN prop	er shipping name:	-			
Transpor	t hazard class(es):	-			
Packing	group:	-			
Environm	nentally hazardous:	-			
Special p	recautions for user:	-			
	Inland waterway transport	(ADN)			
UN num	ber:	Not applicable			
UN proper shipping name:		-			
Transpor	t hazard class(es):	-			
Packing	group:	-			
Environm	nentally hazardous:	-			
Special p	precautions for user:	-			
	Transporting/shipment by	sea (IMDG)			



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Trading name:	4% NB FORMALDEHYDE				
Product code: FNB4-X**		Revision date:	21 Dec 2022	Version:	6
			•		

UN number:	Not applicable
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:	3334
UN proper shipping name:	Aviation regulated liquid, n.o.s. (formaldehyde)
Transport hazard class(es):	9
Packing group:	III
Environmentally hazardous:	None
Special precautions for user:	no information

Eurth	Further information:	Formaldehyde solutions, nonflammable, containing less than 25% of formaldehyde do
Further mormation.	not adhere to the ADR regulations.	

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



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Trading name:	4% NB FORMALDEHYDE					
Product code:	FNB4-X**	Revision date:	Revision date: 21 Dec 2022		6	
		agulation (EC) No 1907/2006				

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

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



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Trading name:		4% NB FOR	4% NB FORMALDEHYDE		
Product code:	FNB4-X**	Revision date:	21 Dec 2022	Version:	6

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classifi	ssification according to CLP		Classification procedure	
-			-	
16.5.	Relevant H statements (num		iber and full text)	
	H:	225	Highly flammable liquid and vapor.	
		301	Toxic if swallowed.	
		302	Harmful if swallowed.	
		311	Toxic in contact with skin.	
		312	Harmful in contact with skin.	
	314 317 331		Causes severe skin burns and eye damage	
			May cause allergic skin reaction.	
			Toxic if inhaled.	
		332	Harmful if inhaled.	
		341	Suspected of causing genetic defects.	
		350	May cause cancer.	
		370	Causes damage to organs.	
16.6.	. Training advice: -		-	
			** "X" in the product code marks different volumes (different packagings of the product)	
16.7.	16.7. Further information:		We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX: EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT

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Trading name:	HEMATOXYLIN ML					
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9	

SECTI	ON 1: Identification of t	he substand	ce/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	HEMATOXYLIN ML			
	Chemical name:	-			
	Catalogue number:	HEMML-C	HEMML-OT-X**		
1.2.	Relevant identified uses of the substance or mixture and uses advised against			ixture and uses advised against	
	Uses:		Modified	hematoxylin acc. to Mayer-Lillie for nuclear staining.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advis	ed against:	medical c	uct is intended for use only as an <i>in vitro</i> diagnostic levice, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes	
1.3.	Details of the supplier	of the safet	y data sheet		
	Supplier: B		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr		
National contact: -					
1.4.	Emergency telephone number				
	National Protection and Rescue Dire		irectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Reg	ulation (EC) No 1272/20	08 (CLP)		
	Hazard class and category code: Hazard statements*:				
	Eye Irr. 2 H319				
2.1.2.	Additional information				
	-				
*For full	text of Hazard- and EU Hazard-s	statements: see Section	16		
2.2.	Label elements				
	Product identification: HEMATOXYLIN ML				
	Identification number: -				
	Authorization no.:	-			



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Trading name:	HEMATOXYLIN ML				
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statements:	H319 Causes serious eye irritation.
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
	Endocrine Disrupting Proper No known endocrine disruptin Results of PBT and vPvB asse PBT or a vPvB.	

SECTION 3. Co	SECTION 3. Composition/information on ingredients						
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)			
7784-31-8/ 616-524-3/ -	-	3 – 4 %	aluminum sulfate octadecahydrate	Eye Dam. 1; H318			

SECTI	SECTION 4. First aid measures					
4.1.	Description of first aid measu	ures				
	General notes:	Take off contaminated clothing.				
	Following inhalation:	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.				
	Following skin contact:	Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.				
	Following eye contact:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.				
	Following ingestion:	Rinse mouth. Call a doctor if you feel unwell.				



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Trading name:	HEMATOXYLIN ML					
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9	

	Self-protection of the first aider: Treat symptomatically.					
4.2.	Most important symptoms and effects, both acute and delayed					
	Following inhalation: No information available					
	Following skin contact:	No information available				
	Following eye contact:	Risk of blindness, Risk of serious damage to eyes.				
	Following ingestion:	No information available				
4.3.	Indication of any immediate medical attention and special treatment needed					
	_					

SECTIO	CTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, foam, CO ₂ Large fire - water spray or alcohol-resistant foam			
	Unsuitable extinguishing media:	water jet			
5.2.	Special hazards arising from the substance or mixture				
	Hazardous combustion products:	No information available			
5.3.	Advice for firefighters				
	Do not enter fire area without pro	per protective equipment, including respiratory protection.			
5.4.	Additional information				
	Remove sources of heat and ignit Do not contaminate the environm				

SECTIO	ON 6. Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment: Use personal protective equipment (see Section 8).					
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Do not enter fire area without pro	oper protective equipment, including respiratory protection.				
6.2.	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3.	Methods and material for contain	ment and cleaning up				



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Trading name:	HEMATOXYLIN ML					
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9	

6.3.1.	Bunding, covering of drains; capping procedures:	Covering of drains. Take up mechanically.		
6.3.2.	Cleaning up:	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. 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:	Place in appropriate containers for disposal.		
6.4.	Reference to other sections			
	See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment. See Section 13 for information about containment.			

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



Soil (agricultural)

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

Page 5 of 17 Trading name: **HEMATOXYLIN ML** Product code: **HEMML-OT-X**** Revision date: 27.03.2023. Version: 9 **Recommendations:** _ Industrial sector specific solutions: _ **SECTION 8. Exposure controls/personal protection** 8.1. Control parameters Occupational exposure limit values/short term values Substance CAS No **Biological limit values** mg/m³ ppm No information available _ _ _ _ Substance Aluminium sulphate octadecahydrate name: CAS No: 7784-31-8 EC No: 233-135-0 DNEL Industrial **Route of** Acute Acute Chronic Chronic exposure: effect local effect systemic effect local effect systemic Oral _ _ _ Inhalation _ _ _ 13,4 mg/m³ Dermal 3,8 mg/kg bw/day _ _ _ _ Critical physical parameters: solubility, flammability, corrosivity: Consumer Chronic Acute Acute Chronic **Route of** exposure: effect local effect local effect systemic effect systemic Oral _ _ _ _ Inhalation _ _ _ _ Dermal _ _ _ _ **PNEC PNEC** Environmental protection target Fresh water No information available Freshwater sediments No information available Marine water No information available Marine sediments No information available Food chain No information available Microorganisms in sewage treatment No information available

No information available



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Trading name:	HEMATOXYLIN ML				
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Air			No information available			
8.2.	Exposure controls					
8.2.1.	Engineering measures					
	Substance/mixture relate measures to prevent expe during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structural measures to pr exposure:	revent	No information available			
	Organisational measures to prevent exposure: Technical measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.			
			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.			
8.2.2.	Personal protection equi	oment				
8.2.2.1.	Eye and face protection:		Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection					
	Chem 374. Hand protection:		emical protection gloves are suitable, which are tested according to EN 4. Glove material: nitrile rubber Glove thickness: > 0.11 mm Break through time: >480 min			
	Other skin protection:		ar antistatic clothing made of natural fibers (such as cotton) with long ves (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	In cas	se of inadequate ventilation wear respiratory protection.			
8.2.2.4.	Thermal hazards:	No in	formation available			
8.2.3.	Environmental exposure controls					
	Substance/mixture relate measures to prevent exp		See Section 6			
	Structural measures to pr exposure:	revent	Use modern equipment.			
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace. Keep away from drains, surface and ground water.			
	Technical measures to pr exposure:	event	See Section 6			

SE	SECTION 9. Physical and chemical properties				
9.	1.	Information on basic physical and cher	nical properties		
			Value	Method	



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Trading name:		HEMAT	HEMATOXYLIN ML		
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

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

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

SECTIO	ON 11. Toxicological information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
	Acute toxicity:



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Trading name:		HEMAT	HEMATOXYLIN ML		
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	anhydrous (ECHA)	rabbit	LD ₅₀	-	>2.000-<5.000 mg/kg (aluminium sulphate octadecahydrate)
Dermal exposure:	anhydrous (ECHA)	rat	LD ₅₀	-	>5.000mg/kg (aluminium sulphate octadecahydrate)
Inhalation exposure:	No information available	-	LC ₅₀	-	-

Specific targ	et organ	toxicity -	single	exposure (STOT SE)	:

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

Respiratory irritation:

No information available

			1	1	i de la companya de l
	Exposure time	Species	Evaluati	Meth	Note
	Exposure time	Species	on	od	note
Skin irritation:	-	-	-	-	
Eye irritation:	-	-	-	-	Causes serious eye damage
Dermal exposure:	No information availabl	e			
Inhalation	No information availabl	e			
exposure:					
exposure:					
•	s related to the physical,	chemical and toxic	cological chai	racteristi	CS CS
	s related to the physical, No information avail		ological char	racteristi	CS



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							Page 9	ot I/
Trading name:				HEMA	TOXYLIN ML			
Product code: HI		HEMML-OT-X**		evision date:	27.03.2023.	•	Version:	
Inhalation expos Eye exposure:	ure:	No informati Causes serio	on available us eye damag	le				
				,				
Repeat	ed dos	e toxicity (sub	pacute, subch	ronic, chronic)				
		Dose	Exposure time	Species	Method	Evaluatio	n	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No inforr available	nation	-
Subacute dermal	No information available		No information available	No information available	No information available	No inforr available	mation	-
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No information available		-
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available		-
Subchronic dermal	No availa	information able	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 availa	information able	No information available	No information available	No information available	No information available		-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No inforr available	nation	-
Chronic inhalation	No information available		No information available	No information available	No information available	No information available		-
I								
Specific	targe	t organ toxici		exposure (STO	T RE):			
			Specific effect		Target o	-	1	Note
Subacute oral			tion available		No information available		-	
Subacute derma			tion available		No information		-	
Subacute inhalat	ion		tion available		No information		-	
Subchronic oral		No informa	tion available	9	No information	available	-	



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Trading r	name:			HEMA	TOXYLIN ML				
Product code: HEMML-OT-X*		MML-OT-X**	Revision date: 27.03.2023.		Version:	9			
Subchroni	ic dermal		No information av	ailable	No information available	-			
Subchroni	ic inhalatio	on	No information av	ailable	No information available	-			
Chronic or	ral		No information av	ailable	No information available	-			
Chronic de	ermal		No information av	ailable	No information available	-			
Chronic in	halation		No information av	ailable	No information available	-			
C	CMR effec	ts (ca	rcinogenicity, muta	igenicity, reproductiv	e toxicity)				
C	Carcinogenicity:		No information available						
١	Mutagenio	city in	n-vitro:	No information available					
C	Genotoxic	ity:		No information available					
١	Mutagenio	city in	n-vivo:	No information available					
C	Germ cell	muta	genicity:	No information av					
F	Reproduct	ive to	oxicity:	No information av					
S	Summary	of eva	aluation of the CMI	R properties:	-				
			other hazards:						
			pting properties:						
-	No knov properties		endocrine disru affect human healt						
11.2.2.	Other info	rmati	ions:						
-									

SECTION 12. Ecologi	SECTION 12. Ecological information							
12.1. Toxicity								
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note		
Fish	LC ₅₀	96 hours	Fish	ECHA	>85.9 mg/l (aluminium sulphate octadecahydrate)	-		
Crustacea:	EC ₅₀	48 hours	aquatic invertebrates	ECHA	>200 mg/l (aluminium sulphate octadecahydrate)	-		
Algae/aquatic plants	IC ₅₀	8 days	algae	No information available	-	-		



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Trading name:		HEMAT	OXYLIN ML		
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

Microorganisms	LC ₅₀	72 hours	-	-	-	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	_
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	EC ₅₀	180 min	microorganisms	ECHA	>1.000 mg/l (aluminium sulphate octadecahydrate)	-

12.2. Persistence and degradability

Abio	otic 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	-

Biodegradation

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

12.3. Bioaccumulative potential

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

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



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Trading name:		HEMAT	OXYLIN ML		
Product code:	HEMML-OT-X**	Revision date:	27.03.2023.	Version:	9

		Thran	on factor (BCF)	/			F					
Va No inforr	lue mation	•		•		Method Evaluation					Note	
available		ava	ilable		availabl		available			available		
	Chronic e	ecoto	kicity									
	Value		Dose		osure me	Species	Meth	od	Eva	aluation	Note	
Chronic t	oxicity or	ı fish	LC ₅₀	No inforr availa	nation ble	No informat ion available	No inform available	ation	No info availab	ormation lle	-	
	toxicity or a (<i>Daphni</i> a		EC ₅₀	No inforr availa	nation ble	No informat ion available	No inform available	ation	No info availab	ormation le	-	
		natio	licted distribut n available n:	ion in e	nvironm	ental comp	oartments:					
	Value		°C		Conce	entration	Meth	od		Note		
	No informati available	on i	No inform available	nation	No info availabl	rmation e	No inform available	ation	-			
	Adsorptio	on / d	esorption									
Transpor	t	-	oefficient s constant	lo	g Kow	Evapoi	ration rate	М	ethod		Note	
Soil-wate	er No avail	able	information	No in availa	formatio ble	n No info availab	ormation le	No info availat	ormatior ole	٦ ₋		
Water-ai	r No avail	able	information	No in availa	formatio ble	n No info availab	ormation le	No info availat	ormatior ole	۱ -		
	No		information					ormation No info		nation _		



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Trading name:					
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12.5.	Results of PBT and vPvB assessment
	No information available
12.6.	Endocrine disrupting properties
	No known endocrine disrupting properties that affect the environment.
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:
13.1.2.	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)



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Trading name:	HEMATOXYLIN ML						
Product code:	HEMML-OT-X**		Revision date:	27.03.2023.	Version:	9	
	:		:	:	:	1	
UN number:		No	subject to transpo	ort regulations.			
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transport	ing/shipment by rail (RID)					
UN number:		No	subject to transpo	ort regulations.			
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Inland wa	terway transport (ADN	J)					
UN number:		Not subject to transport regulations.					
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transport	ing/shipment by sea (IMDG)				
UN number:		No	subject to transpo	ort regulations.			
UN proper shipping	g name:	-					
Transport hazard cl	ass(es):	-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					
Transport	ing/shipment by air (l	CAO-	ΓΙ/IATA-DGR)				
UN number:		No	subject to transpo	ort regulations.			
UN proper shipping name:		-					
Transport hazard class(es):		-					
Packing group:		-					
Environmentally ha	zardous:	-					
Special precautions	s for user:	-					



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Further information:

The product is not subject to classification.

5.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or rest	rictions of use			
	Authorizations:	-			
	Restrictions:	-			
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2000 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 1 December 2008 on classification, labelling and packaging of substances an mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, an amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certai dangerous substances, mixtures and articles (Annex XVII); 			
	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				
5.2.	Chemical safety assessme	ent			
	None				

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



-

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Trading	g nan	ne:			HEMAT	OXYLIN ML		
Produc	t cod	le:	HEMML-OT-X*	ŧ	Revision date:	27.03.2023.	Version:	9
			1		1		1	1
16.2.	.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.		literat rce of	ture references and data:	I	-			
16.4.			ion and procedure 8 (CLP)	used to	o derive the classifica	ation for mixture acco	ording to Regulation	on (EC)
Classific	ation			Classification procedure				
-				-				
16.5.	Rele	evant l	H statements (num	ber and	full text)			
	H:	318		Cause	s serious eye damag	е.		
		319		Causes	s serious eye irritatio	on.		
16.6.	Trai	ning a	idvice:	-				
16.7.	the pr Further information: We ar instrue		oduct) e not responsible for	marks different volu r consequences in ca roper use of the proc	se of failure to cor	nply with		

ANNEX: Exposure scenario resulting to Chemical safety assessment



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SECTI 1.1	ION 1: Identification of 1 Product identifier	he substance	e/mixture	and of the company/undertaking			
	Trading name:	OIL RED O	REAGENT				
	Chemical name:	-	-				
	Catalogue number:	ORO-OT-X*	**				
1.2		es of the subs	tance or n	nixture and uses advised against			
	Uses:		Reagent	for staining lipid substances.			
	Uses advised against:		Only the	identified uses are advised.			
	Reason why uses advis	vised against: device, registered at the Agency for Medicinal Pr		duct is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes.			
1.3	Details of the supplier	of the safety	data shee	t			
	Supplier:		BioGnost Ltd.				
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997				
	Telefax.:		+385 1 2404039				
	e-mail of competent p	erson:	msds@biognost.hr				
	National contact:		-				
1.4	Emergency telephone	number					
	National Protection ar	d Rescue Dire	ectorate:	112			
	Medical information:			+385 1 2348 342			
	Other information:			-			

SECTION 2. Hazards identification				
2.1	Classification of the substance of	or mixture		
2.1.1	Classification according to Regu	ulation (EC) No 12	72/2008 (CLP)	
	Hazard class and catego	ory code:	Hazar	d statements*:
	Flam. Liq. 2		H225	
	Eye Irr. 2		H319	
	STOT SE 3		H336	
2.1.2.	Additional information			
	-			
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16	
2.2	Label elements			
	Product identification:	OIL RED O REAG	ENT	
	Identification number:	-		



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	Authorization number:	-
	Hazard pictograms:	GHS02 GHS07
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness
	Precautionary statements:	 P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	rties:
	No known endocrine disrupti	ng properties.
		ins no components considered to be either persistent, bioaccumulative and and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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)
67-63-0/ 200-661-7/ 603-117-00-0	-	70 - 90 %	propan-2-ol	Flam. Liq. 2; H225 Eye Irr. 2; H319 STOT SE 3; H336

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.		



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Trading name:	OIL RED O REAGENT					
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	_	
4.3	Indication of any immediate medi	cal attention and special treatment needed
	Following ingestion:	Overexposure may cause mild, reversible liver effects. Aspiration may lead to: lung edema, pneumonia
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following skin contact:	Defatting, dry skin.
	Following inhalation:	Central nervous system depression, prolonged or repeated exposure can cause: nausea, headache, vomiting, narcosis, drowsiness.
4.2	Most important symptoms and eff	fects, both acute and delayed
	Self-protection of the first aider:	-
	Following ingestion:	Do not induce vomiting. Do not insert any object into the unconscious person's mouth. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.
	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 skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptom of irritation remain.
	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.

SECTI	SECTION 5. Firefighting measures					
5.1	Extinguishing media					
	Suitable extinguishing media:	Carbon dioxide (CO ₂), foam, dry powder.				
	Unsuitable extinguishing media:	No information available.				
5.2	Special hazards arising from the substance or mixture					
	Hazardous combustion products:	Carbon oxides Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.				
5.3	Advice for firefighters					
	Use a self-contained open-circuit of	compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information					
	Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.					



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

SECTIO	SECTION 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			



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Trading name:	OIL RED O REAGENT					
Product code:	ORO-OT-X**	Revision date:	14 November 2022	Version:	5	

	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. The	noroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incor	npatibilities			
	Technical measures and storage conditions:		ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:		Manufacturer's original packaging. Suitable material: HDPE containers.		
	Requirements for storage rooms and vessels:		ep away from food and drink. Keep the containers ntly closed.		
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain Ily leads into sewage system. Secure proper n.		
	Further information on storage conditions:	and do no chemicals.	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 parameters								
Substance		CAS No			Occupational exposure limit values/short term values			Biological limit values
				рр	m	mg/m ³		
Propan-2-ol	Propan-2-ol 67-63-0 400/500 999/1250		999/1250		-			
Substance name:	-							
EC No:	-	CAS No	• -					
DNEL		•						
Industrial								
Route of	Αςι	ıte	Ac	ute		Chronic		Chronic
exposure:	effect	local	effect s	ystemic	stemic effect local effect syste		effect systemic	



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Trading na	ame:	OIL RED O REAGENT							
Product co	ode: (ORO-OT-X**	Revisi	on date:	1	4 November	· 2022	Version:	5
	:		:		*			:	8
Oral	-		-	-			-		
Inhalation	-	-	-	-			500 mg/	/m³ (propan-2-	ol)
Dermal	-		-	-			888 mg/ (propan	/kg bw/day -2-ol)	
Critical phys	sical parar	meters: solubility,	flammability, co	rrosivity:		-			
			Co	onsumer					
Route of		Acute	Acute		Chro	onic		Chronic	
exposure:		effect local	effect systemi	ic	effect	local	е	ffect systemic	
Oral		-	-	-			26 mg/k (propan	kg bw/day -2-ol)	
Inhalation		-	-	-			89 mg/r	n³ (propan-2-o	ol)
Dermal		-	-	-			319 mg/	/kg (propan-2-	ol)
PNEC									
Environmer	ntal protec	tion target		PNEC					
Fresh water	-			no information available					
Freshwater	sediments	5		no information available					
Marine wat	er			no inform	nation	available			
Marine sedi	iments			no information available					
Food chain				no information available					
Microorgan	nisms in se	wage treatment		no information available					
Soil (agricul	ltural)			no inform	nation	available			
Air				no information available					
8.2	Exposure	e controls							
8.2.1.	Appropr	iate engineering o	controls						
		ce/mixture relatec exposure during i		Use the product in well ventilated rooms. Use persona protective equipment. Do not eat, drink or smoke in the workspace.					
	Structura exposure	al measures to pre e:	event	In accordance with Section 7.					
	Organiza exposure	ational measures t e:	to prevent	Organization of work in order to reduce other worker's influence during work process.				''S	
	Technica	al measures to pre	event exposure:	concentra	ation le	•	ow permi	order to keep tted levels. Sec J.	
8.2.2.	Personal	protection equip	ment						



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Trading name:		OIL RED O REAGENT							
Product		ORO-OT-X**	Revision date:	14 November 2022	Version:	5			
8.2.2.1. Eye and face protection:		Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.							
8.2.2.2.	Skin p	protection							
	Hand	protection:	Regulation (EU) 20 Full contact: Glove mate Glove thick Time until p Splash contact: Glove mate Glove thick	ves have to satisfy the speci 16/425 and the related star rial: butyl rubber ness: ≥ 0.50 mm perforation: > 480 min rial: nitrile rubber ness: 0.4 mm igh time: 35 min					
	Other	skin protection:	During everyday work use antistatic clothing (EN 13688) and suitable footwear, such as rubber boots (EN 20345) or shoes cover the entire foot. In case of spilling hazard, use clothing of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the s material.						
8.2.2.3.	Respi	ratory protection:	If the concentration level exceeds the GVI values (or because of inadequate ventilation), use a filter for organic vapors, type "A" (boiling point >65°C) according to EN 14387.						
8.2.2.4.	Thern	nal hazards:	No information ava	ailable					
8.2.3.	Enviro	onmental exposure controls							
		ance/mixture related ures to prevent exposure:	See Section 6						
	Struct expos	ural measures to prevent sure:	Use modern equip	Use modern equipment.					
	-	nisational measures to nt exposure:	Adapt the work pro workplace.	ocess to the required worki	ng conditions o	of the			
	Techr expos	nical measures to prevent sure:	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:	red	No information available			
	Odour/odour threshold:	no information available	No information available			



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Trading name:		OIL RED C) REAGENT		
Product code:	ORO-OT-X**	Revision date:	14 November 2022	Version:	5

	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:	18 °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 No information available		
	Kinematic viscosity:	No information available			
	Solubility:	No information available	No information available		
	Partition coefficient n- octanol/water (log value):	No information available	No information available		
	Vapour pressure:	No information available	No information available		
	Density and/or relative density	No information available	No information available		
	Relative vapour density:	No information available	No information available		
	Particle characteristics:	No information available	No information available		
2	Other information				
	Ignition temperature: 425 °C				
	Product is not explosive. However,	formation of explosive air/vap	our mixtures are possible.		

SECTI	ON 10. Stability and reactivity	
10.1	Reactivity:	See subsections 10.3 through 10.5.
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No dangerous reactions known.
10.4	Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
10.5	Incompatible materials:	Acids, bases, oxidants.
10.6	Hazardous decomposition products:	Carbon monoxide and carbon dioxide.

SECTION 11. Toxic	SECTION 11. Toxicological information										
11.1 Information on toxicological effects											
Acute toxicity:											
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results						
Oral:	-	rat (2-propanol)	LD ₅₀	-	5.840 mg/kg						



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Trading name:			OIL F	RED O	REAGENT				
Product code:	ORO-OT-X**	Re	evision dat	te:	14 Novei	mber 2022	V	ersion:	5
Dermal:	_	rabbit (2 propa	nall	חו				12 000 -	~~~//~~
Inhalation:	-	rabbit (2-propa rat (2-propan	•			- 4 h		12.800 r 37.5 m	ng/l -
				2030				vap	or
Specific	target organ toxici	ty – single expo	osure (STO	T SE):					
		ific effects		-	Target orgar	n l		Note	
Oral:	No informatior		N		mation availa		-		
Dermal:	No information	n available	N	o infor	mation availa	able	-		
Inhalation:	No informatior	n available	N	o infor	mation availa	ania	may ca or dizz	ause drow riness	siness
						· · ·			
Aspiratio	on hazard:	N	lo informat	ion ava	ailable.				
Irritation	and corrosion								
	Exposu	re time	Species		Evaluation	Method		Note	
Skin corrosion/irritatic	on: -	-		-		-	-		
Serious eye damage/irritatior	-	ra	abbit	-		-		ses serious ation	s eye
Sensitiza	ation								
Skin sensitization	: No in	formation avail	able.						
Respiratory sensi	tization: No in	formation avail	able.						
_	:								
Symptor	ms related to the p	hysical, chemic	al and toxi	cologic	al characteri	stics			
Oral exposure:	No informat	ion available.							
Dermal exposure	: No informat	ion available.							
Inhalation exposu	ure: No informat	ion available.							
Eye exposure:	No informat	ion available.							
Repeate	d dose toxicity (sub	pacute, subchro	onic, chroni	ic)					
	Dose	Exposure time	Species	,	Method	Evaluat	ion	Note	
Subacute oral	No information available	No information available	No informati available		No information available	No informa availab		-	



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Trading name:				OIL RED	O REAGENT			
Product code:	OF	RO-OT-X**	F	Revision date:	14 Novem	ber 2022	Version:	5
Subacute dermal	No availa	information able	No information available	No information available	No information available	No information available	n -	
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No information available	n -	
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available	n -	
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	n -	
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	n -	
Chronic oral	No information available		No information available	No information available	No information available	No information available	n -	
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	n -	
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	n -	
Specific	target	organ toxicit	y – repeated	exposure (STOT	RE):			
			Specific eff	ects	Target o	rgan	Note	
Subacute oral		No informa	ition availabl	e	No information	n available	-	
Subacute dermal		No informa	ition availab	е	No information	n available	-	
Subacute inhalat	ion	No informa	tion availab	e	No information	n available	-	
Subchronic oral		No informa	ition availab	е	No information	n available	-	
Subchronic derm	nal		ition availabl		No information	n available	-	
Subchronic inhalation No information available				No information		-		
Chronic oral No information available				No information		-		
Chronic dermal			tion availabl		No information		-	
Chronic inhalatio	n	No informa	ition availabl	e	No information	n available	-	
			y; mutagenic	ity; reproductive				
Carcino	genicit	y:		Based on avail	able data, the cla	issification cri	teria are not	met.



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Trading	g name:			OIL RED	O REAGENT								
Produc	ct code:	ORO-OT-X**	Revis	ion date:	14 November 2022	2 Version: 5							
	1												
	Mutageni	city <i>in vitro</i> :	Ba	Based on available data, the classification criteria are not met.									
	Genotoxi	city:	Ва	sed on availa	ble data, the classification	criteria are not i	met.						
	Mutageni	city <i>in vivo</i> :	Ва	sed on availa	ble data, the classification	criteria are not i	met.						
	Germ cell	mutagenicity:	Ba	sed on availa	ble data, the classification	criteria are not i	met.						
	Reproduc	tive toxicity:	Ba	Based on available data, the classification criteria are not met.									
	Summary properties		the CMR	Based on a met.	available data, the classific	ation criteria a	re not						
11.2	Informatio	on on other hazards:											
11.2.1.	Endocrine	e disrupting properties:											
	No knowi	n endocrine disrupting p	properties th	erties that affect human health.									
11.2.2.	Other info	ormations:											
	-												

SECTION 12. Ecologie	cal informat	ion				
12.1 Toxicity						_
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Pimephales promelas	No information available	9.640 mg/l (2- propanol)	-
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available 13.29 (2-pro		-
Algae/aquatic plants	IC ₅₀	4 days	algae	No information available	>1,000 mg/l (2-propanol)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish LC ₅₀		96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-



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Trading nar	ne:				OIL RED	O REAGENT				
Product coo	de: C	ORO-OT-X*	*	R	evision date:	14 Novem	nber 2022	Vers	ion:	5
Algae/aquati	c plants	IC ₅₀	72 hours		No information available	No information available	No inform available	_		
Other organi	sms	-	-	-	-	-	-		-	
		and degrada	bility							
Abio	otic degr									
	De	egradation h	alf-lives		Method	Evaluatio		Ν	lote	
Marine water No information available					information ilable	No informatio available	n -			
Fresh water No information available					information ilable	No informatio available	n -			
Air No information availabl					information ilable	No informatio available	n -	-		
Soil No information available					information ilable	No informatio available				
Biod	legradati	ion								
% Degrada	ation	Time (days)		Method	Evaluatio	n	١	lote	
53 %		5 days	ays		obic	No information available		Readily biodegradabl		able
		itive potentia er partition c		log K	ow)					
Value	Conce	entration	рН	°C	Method	Evalu	ation		Note	
≤ 4	-		-	-	-	-			expected	
Biod	oncentra	ation factor (BCF)							
Value	Value Species				Method	Evaluati	on		Note	
	on N	No in	formation	No	information	No information available				



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Trading name:	OIL RED O REAGENT							
Product code:	ORO-OT-X**	Revision date:	14 November 2022	Version:	5			

	Chro	onic ecoto	xicity	I _ I							
	Va	lue	Dose	Exposure time	Sp	Species Metho		nod	Ev	aluation	Note
Chroni	c toxic	ity on fish	LC ₅₀	No information available	No infor avail	mation able	No informa availab		-	rmation lable	-
Chroni crustac		city on aphnia)	EC ₅₀	No information available	No infor avail	mation able	No inform availab		_	rmation lable	-
12.4	Mol	oility in soi									
	Kno	wn or pred	dicted distributi	on in environm	ental	compart	ments:				
	No	informatio	n available								
	Surf	ace tensio	n:								
		Value	°C	Concentratio		n Method				Note	
	NoNoinformationinformationavailableavailable		information	No information available		No information available			-		
	Ads	orption / c	lesorption								
Transp	ort	-	coefficient 's constant	log Kow		Evaporation rate		Method		bd	Note
Soil-wa	ater	No available	information	No information available		No information available		n No informatio available		ation	-
Water-	air	No available	information	No informatic available		lo inform vailable	ation	No ir availa		ation	-
Soil-air		No available	information	No informatic available		lo inform vailable	ation	No ir availa		ation	-
12.5.	Res	ults of PBT	and vPvB asses	ssment							
				ins no compone and very bioace							



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Trading na	me:		OIL RED	O REAGENT									
Product co	de:	ORO-OT-X**	Revision date:	14 November 2022	Version:	5							
acc	ording	to REACH Article 57	•	nsidered to have endocrine ed regulation (EU) 2017/210									
12.7. Oth	Other adverse effects												
No	further	relevant informatio	n available.										
SECTION 13	. Disp	osal considerations											
13.1 W	/aste tr	reatment methods											
13.1.1. Pi	roduct,	/Packaging disposal:											
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.												
	Waste codes/waste designations according to Law: Packaging that contains residual hazardous substances or is contaminated with hazardous substances												
Pa	ackagir	ng that contains resid	dual hazardous substances	or is contaminated with ha	zardous substar	nces							
13.1.3. W	Waste treatment – relevant information:												
N	o infor	mation available											
13.1.4. Se	Sewage disposal – relevant information:												
W	Waste must not be disposed of into the sewage system.												
13.1.5. O	Other disposal recommendations:												
a	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.												
13.1.6. R	elevant	t Community provisi	ons:										
D	Disposal must be made according to official regulations.												
SECTION 14	TRAN	ISPORT INFORMAT	ION										
Trai	nsporti	ng/shipment by road	d (ADR)										
UN number:			1219										
UN proper s	hippin	g name:	Isopropanol										
Transport ha	zard cl	lass(es):	3										
Packing grou	ıp:		II										
Environment	ally ha	zardous:	-										



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Trading name:		OIL RED O	REAGENT		
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Transporting/shipment by rail (R UN number:	ID) 1219
	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)
UN number:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
UN number:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	П
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:	1219
UN proper shipping name:	Isopropanol
Transport hazard class(es):	3
Packing group:	П
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



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Trading name:	OIL RED O REAGENT				
Product code:	ORO-OT-X**	Revision date:	14 November 2022	Version:	5

	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 18 December 2006 concerning the Registration, Evaluation, Authorisation ar Restriction of Chemicals (REACH), establishing a European Chemicals Agence amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EE 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 200 on the limitation of emissions of volatile organic compounds due to the use of organ solvents in certain paints and varnishes and vehicle refinishing products ar amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safe 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 2008 on classification, labelling and packaging of substances and mixture amending and repealing Directives 67/548/EEC and 1999/45/EC, and amendir Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certa dangerous substances, mixtures and articles (Annex XVII); 			
	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			
5.2	Chemical safety assessment				
	None				

SECTION 16. Other information	
16.1 Indication of changes:	-



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Trading name:		OIL RED O REAGENT						
Product code: ORO-OT-X**			Revision date:	14 November 2022	Version:	5		
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					
16.3.			terature references and e of data: Manufacturer's MSDS file.					
16.4.		Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					2)	
Classification		Classification procedure -						
16.5.	Rele	evant F	l statements (numb	er and	full text)			
	H:	225 319 336		Cause	r flammable liquid and s serious eye irritation ause drowsiness or di			
16.6.	Trai	ning a	dvice:	-				
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