

SUDAN BLACK B KIT

The kit contains:

Acetone for histology Glutaraldehyde, 4% buffered solution Hematoxylin G3 Sudan Black B reagent



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

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Trading name:	ACETONE FOR HISTOLOGY				
Product code:	AC-X**	Date of compilation:	14 September 2022	Version:	7

1.1	Product identifier				
	Trading name:	ACETONE F	ACETONE FOR HISTOLOGY		
	Chemical name:	propanone			
	Catalogue number:	AC-X**			
1.2	Relevant identified us	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses 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:		+385 1 2	2409997	
	Telefax.:		+385 1 2404039		
	e-mail of competent	person:	msds@biognost.hr		
	National contact:		_		
1.4	Emergency telephone	Emergency telephone number			
	National Protection a	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:				

SECTIO	ON 2. Hazards identification					
2.1	Classification of the substance or mixture	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No	o 1272/2008 (CLP)				
	Hazard class and category code:	Hazard statements*:				
	Flam. Liq. 2	H225				
	Eye Irr. 2	H319				
	STOT SE 3	H336				
		EUH066				
2.1.2.	Additional information					
	-					
*For fu	III text of Hazard- and EU Hazard-statements: se	e SECTION 16				
2.2	Label elements					
	Product identification: ACETONE FC	DR HISTOLOGY				



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

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Identification	number:	-
Authorization	n number:	-
Hazard picto	grams:	GHS02 GHS07
Signal word:		Danger
Hazard state	ments:	H225 Highly flammable liquid and vapor.H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.
Precautionar	y 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. P308 + P313 IF exposed or concerned: Get medical advice/attention.
Supplemetal information (EUH066 Repeated exposure may cause skin dryness or cracking.
Other hazard	s	

SECTION 3. Cor	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
67-64-1/ 200-662-2/ 606-001-00-8	-	100 %	acetone	Flam. Liq. 2; H225 Eye Irr. 2; H319 STOT SE 3; H336 EUH066		

SECTIO	SECTION 4. First aid measures				
4.1	Description of first aid measures				
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			



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	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:	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.
	Self-protection of the first aider:	-
4.2	Most important symptoms and ef	fects, both acute and delayed
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
	Following skin contact:	Defatting, dry skin.
	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.

SECTIO	ECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO2 Large fire - water spray or alcohol resistant foam			
	Unsuitable extinguishing media:	No information available			
5.2	Special hazards arising from the su	ubstance or mixture			
	Hazardous combustion products:	Carbon monoxide (CO)			
5.3	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.				
5.4	Additional information				
	Do not contaminate the environment	ent with extinguishing media.			



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SECTIO	ON 6. Accidental release meas	ures		
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.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).			
6.2	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for 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 involved materials with water.		
6.3.3.	Other information:	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 See Section 13 for disposal in	on personal protection equipment. Formation.		

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



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

SECTION	ON 8. Exposi	ire contro	ols/perso	nal prote	ction			
8.1	Control pa	rameters						
Substance		CA	S No		Occupational exposure limit values/short term values		Biological limit values	
				рр	m	mg/m³		
Acetone		67	'-64-1	50	0	1210	No information available	
Substa	nce name:	-						
EC No	:	<u>-</u>	CAS No	:				
DNEL								
					Indus	trial		
Route	of	Acı	ıte	Acı	ıte		Chronic	Chronic
expos	ure:	effect	local	effect sy	/stemic		effect local	effect systemic
Oral		-		-		-		-
Inhalat	tion	-		-		-		1210 mg/m³ (acetone)
Derma	اد	_		_		_		186 mg/kg (acetone)



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Critical ph	ysical par	ameters: solubility,	flammability, co	rrosi	vity: -		
	, ,		-	nsu	<u> </u>		
Route of		Acute	Acute		Chronic	Chronic	
exposure	:	effect local	effect systemi	ic	effect local	effect systemic	
Oral		-	-		-	-	
Inhalation	1	-	-		200 mg/m3 (acetone)	-	
Dermal		-	-		62 mg/kg (acetone)	-	
PNEC							
Environmental protection target			PN	IEC			
Fresh wat	er			1(0.6 mg/l (acetone)		
Freshwate	er sedimer	nts		30	0.4 mg/kg (acetone)		
Marine wa	ater			1.	.06 mg/l (acetone)		
Marine se	diments			3.	.04 mg/kg (acetone)		
Food chai	n			No information available			
Microorga	Microorganisms in sewage treatment				100 mg/l (acetone)		
Soil (agric	ultural)			29	9.5 mg/kg (acetone)		
Air				N	o information available		
	,						
8.2	Exposu	ure controls					
8.2.1.	Appro	priate engineering	controls				
		ince/mixture related at exposure during		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.			
	Structı exposi	ural measures to pr ure:	event	In accordance with Section 7.			
	Organ exposi	isational measures ure:	to prevent	Organization of work in order to reduce other worker's influence during work process.			
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		elow permitted levels. Secure		
8.2.2.	Person	nal protection equip	ment				
8.2.2.1.	Eye an	d face protection:	Safety glasses that stick to face (EN 166) or visor in case of lowe		ive gas mask that covers the		
8.2.2.2.	Cl.:	rotection	<u>L</u>				



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	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374.Full contact: Glove material: butyl rubberGlove thickness: ≥ 0.50 mm Time until perforation: > 480 minSplash contact: Glove material: nitrile rubber Glove thickness: 0.4 mm Break through time: 35 min
	Other skin protection:	During every day work use antistatic clothing (EN 13688) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	If the concentration level exceeds the GVI values (or because ofinadequate ventilation), use a filter for organic vapors, type "A"(boiling point >65°C) according to EN 14387.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

SECTI	SECTION 9. Physical and chemical properties				
9.1	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	Visual inspection		
	Color:	colourless	Visual inspection		
	Odour/odour threshold:	acetone like/no information available	No information available		
	Melting point / freezing point:	-94.7 °C	No information available		



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	Boiling point or initial boiling point and boiling range:	56.1 °C	No information available
	Flammability:	Highly flammable	No information available
	Lover and upper explosion limit:	2.5 vol % 14.3 vol %	No information available
	Flash point:	-17 °C	No information available
	Auto-ignition temperature:	465 °C	No information available
	Decomposition temperature:	No information available	No information available
	рН:	No information available	No information available
	Kinematic viscosity:	Dynamic 0.32 mPas (at 20°C)	No information available
	Solubility:	with water fully miscible	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	240 hPa	No information available
	Density and/or relative density	0.79 g/cm³ at 20 °C	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
	Physical state:	No information available	No information available
.2	Other information		
	-		

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

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				



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Product code:	AC-X**		Date	of cor	mpilation	: 1	4 Sept	ember 20	022	Version:	7
									:		
Oral:	-	rat			LD ₅₀		- : : : : : : : : : : : : : : : : : : :			>2,000 n (aceto	
Dermal:	-	rat			LD ₅₀		- :			>2,000 n (aceto	
Inhalation:	-	rat			LD ₅₀			4 h		20 mg (acetor	
C:6:-+-		and the state of		(C	TOT CEV						
Specific tai	rget organ	toxicity – single	•	sure (S							
		Specific effect				Target o				Note	
Oral:		nation available			No inform				-		
Dermal:	No infor	mation available	9		No inforn	nation	availab		-		
Inhalation:	No inform	mation available	e		No inform	mation	on available may cause drow or dizziness				ness
Aspiration	hazard:		No	inforn	nation ava	ilable.					
Irritation a	nd corrosio	on							1		
	E:	kposure time		Speci	es E	Evaluati	on	Method		Note	
Skin corrosion/irritation:	-		-		-		-	•	-		
Serious eye damage/irritation	-		-		-		-			ses serious ation	eye
Sensitizatio	nn .										
Skin sensitization:	311	_									
Respiratory sensitiz	ation:	_									
Symptoms	related to	the physical, cl	nemica	l and to	oxicologica	al chara	acterist	ics			
Oral exposure:	No inf	ormation availa	ıble.								
Dermal exposure:	No inf	ormation availa	ıble.								
Inhalation exposure	e: No inf	ormation availa	ıble.								
Eye exposure:	No inf	ormation availa	ıble.								
								-			
Repeated (dose toxici	ty (subacute, su	ıbchror	nic, chr	onic)						
	Dose	Exposu time	re	Specie	es	Metho	d	Evaluat	ion	Note	



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Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

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



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	CMR effects (carcinogenicity; mutagenicity; re	eproductive toxicity)
	Carcinogenicity:	Based on available data, the classification criteria are not met.
	Mutagenicity in vitro:	Based on available data, the classification criteria are not met.
	Genotoxicity:	Based on available data, the classification criteria are not met.
	Mutagenicity in vivo:	Based on available data, the classification criteria are not met.
	Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
	Reproductive toxicity:	Based on available data, the classification criteria are not met.
	Summary of evaluation of the CMR properties:	Based on available data, the classification criteria are not met.
11.2.	Information on other hazards:	
11.2.1.	Endocrine disrupting properties:	
	No known endocrine disrupting properties that affect human health.	
11.2.2.	Other informations:	

SECTION 12. Ecological information									
12.1 Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC ₅₀	96 hours	fish	No information available	>1,000 mg/l (acetone)	-			
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	>1,000 mg/l (acetone)	-			
Algae/aquatic plants	IC ₅₀	8 days	algae	No information available	>1,000 mg/l (acetone)	-			
Other organisms	-	72 hours	-	-	-	-			
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			



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Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	_	-	-	-	-

	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	-						

12.3 Bi	ioaccumulative potential									
Octanol-water partition coefficient (log Kow)										
Value	Concentration	рН	°C	Method	Evaluation	Note				
-	No information available	-	-	No information available	No information available	-				



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	<u> </u>	ntration	factor (BCF)					1				
V	/alue		Species		N	1ethod		Eν	aluatio	on		Note
No info	ormation le	No availa	inform ble	ation	No info availabl		n	No info		on	No inf availab	ormation ole
	Chronic e	cotoxici	ty									
	Value		Dose		osure ime	Spe	cies	Meth	ıod	Eva	luation	Note
Chronic toxicity on fish		LC ₅₀	No infor availa	mation able	No inforn availa	nation ble	No informa availab		No inform availal		-	
	c toxicity or ea (<i>Daphni</i>		EC ₅₀	No infor availa	mation able	No inforn availa	nation ble	No informa availab		No inform availal		-
12.4	Mobility i	n soil										
	Known or	predict	ed distributi	on in e	nvironm	ental c	ompart	ments:				
	No inforn	nation a	vailable									
	Surface to	ension:										
	Value		°C	C	oncentra	tion		Metho	d			Note
	No informati available		o formation railable		informat ilable	iion	No inf	ormation ole	1	-		
						-						
	Adsorptio	on / desc	orption									
Transpo	ort	A/D coe	fficient	lo	og Kow	Ev	aporati	on rate		Method		Note
•	ort H	A/D coe lenry's c			nformatio	n No	aporati o inform ailable			nformat		Note
Transpo Soil-wa Water-	ort Honter No avail	A/D coe lenry's c i lable	fficient	No ir	nformation able nformation	on No ava on No	inform	nation	No ir availa	nformat able nformat	ion -	Note



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Based on available data, the product does not contain any PBT or vPvB substances. 12.6. Endocrine disrupting properties No known endocrine disrupting properties that affect the environment. 12.7. Other adverse effects No information available SECTION 13. Disposal considerations 13.1.1 Waste treatment methods 13.1.1. Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection. 13.1.2. Waste codes/waste designations according to Law: No information available 13.1.3. Waste treatment – relevant information: No information available 13.1.4. Sewage disposal – relevant information: Waste must not be disposed of into the sewage system. 13.1.5. Other disposal recommendations: Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. 13.1.6. Relevant Community provisions:	12.5.	Results of PBT and vPvB assessment
No known endocrine disrupting properties that affect the environment. 12.7. Other adverse effects No information available SECTION 13. Disposal considerations 13.1 Waste treatment methods 13.1.1. Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection. 13.1.2. Waste codes/waste designations according to Law: No information available 13.1.3. Waste treatment – relevant information: No information available 13.1.4. Sewage disposal – relevant information: Waste must not be disposed of into the sewage system. 13.1.5. Other disposal recommendations: Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. 13.1.6. Relevant Community provisions: - SECTION 14 TRANSPORT INFORMATION Transporting/shipment by road (ADR)		Based on available data, the product does not contain any PBT or vPvB substances.
No known endocrine disrupting properties that affect the environment. 12.7. Other adverse effects No information available SECTION 13. Disposal considerations 13.1 Waste treatment methods 13.1.1. Product/Packaging disposal: Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection. 13.1.2. Waste codes/waste designations according to Law: No information available 13.1.3. Waste treatment – relevant information: No information available 13.1.4. Sewage disposal – relevant information: Waste must not be disposed of into the sewage system. 13.1.5. Other disposal recommendations: Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of in places where ignition may occur. 13.1.6. Relevant Community provisions: - SECTION 14 TRANSPORT INFORMATION Transporting/shipment by road (ADR)	·	
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SECTION 14 TRANSPORT INFORMATION Transporting/shipment by road (ADR)	13.1.6.	Relevant Community provisions:
Transporting/shipment by road (ADR)		-
Transporting/shipment by road (ADR)		
	SECTIO	N 14 TRANSPORT INFORMATION
UN number: 1090		Transporting/shipment by road (ADR)
	UN num	ber: 1090



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

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Trading name:	ACETONE FOR HISTOLOGY					
Product code:	AC-X**	Date of compilation:	14 September 2022	Version:	7	

UN proper shipping name:	Acetone
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (RI	ID)
UN number:	1090
UN proper shipping name:	Acetone
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1090
UN proper shipping name:	Acetone
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1090
UN proper shipping name:	Acetone
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (ICA	AO-TI/IATA-DGR)
UN number:	1090
UN proper shipping name:	Acetone
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-



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Trading name:		ACETONE FOR HISTOLOGY				
Product code:	AC-X**	Date of compilation:	14 September 2022	Version:	7	

Further information:	: -			
rantifer inflormation.				

	ON 15. Regulatory informa							
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture							
	EU regulations	-						
	Authorization and/or restrictions of use							
	Authorizations:	-						
	Restrictions:	-						
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);						
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-						
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act						
15.2	Chemical safety assessme	ent						
	None							

SECTION 16. Other information	
16.1 Indication of changes:	-



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

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Trading name:		IISTOLOGY			
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16.2	,		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.		literature references and rce of data:	-		
16.4.		ssification and procedure 2/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)		
Classifi	catior	1	Classification procedure		
_			-		
16.5.	Rele	evant H statements (numb	er and full text)		
		225	Highly flammable liquid and vapor.		
	H:	319	Causes serious eye irritation.		
		336	May cause drowsiness or dizziness.		
		EUH066	Repeated exposure may cause skin dryness or cracking.		
16.6.	Trai	ning advice:	-		
16.7.	Fur	ther information:	-		

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION					
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

SECTI	ON 1: Identification of	the substan	ce/mixture ar	nd of the company/undertaking		
1.1.	Product identifier					
	Trade name:	GLUTARA	LDEHYDE, 4%	DEHYDE, 4% BUFFERED SOLUTION		
	Chemical name:	-				
	Catalogue number:	G4-OT-X*	*			
1.2.	Relevant identified use	es of the sub	stance or mixt	ture and uses advised against		
	Uses:		For use with	Sudan Black B kit.		
	Uses advised against:		Only the ider	ntified uses are advised		
	Reason why uses advi against:	sed	d The product is intended for use only as an <i>in vitro</i> diagnostic media device and there is no reason to use it for other purposes			
1.3.	Details of the supplier	of the safet	y data sheet			
	Supplier:		BioGnost Ltd. Medjugorska 59, Zagreb			
	Address:					
	Telephone number:		+385 1 2409	997		
	Telefax:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biogr	nost.hr		
	National contact:		-			
1.4.	Emergency telephone	numbers				
	National Protection ar	nd Rescue D	irectorate:	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 R	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and ca	Hazard class and category code: Hazard statement*:						
	Acute Tox. 4	H302						
	Skin Sens. 1		H317					
	Acute Tox. 4		H332					
	Resp. Sens. 1		H334					
2.1.2.	Additional information	Additional information						
	-							
* For fu	ull text of Hazard- and EU Haza	ard-statements: se	SECTION 16					
2.2.	Label elements	Label elements						
	Product identification:	GLUTARALI	EHYDE, 4% BUFFERED SOLUTION					
	Identification number: -							



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION						
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

	Authorisation number:	-		
	Hazard pictograms:	GHS07 GHS08		
	Signal word:	Danger		
	Hazard statement:	H302 Harmful if swallowed.H317 May cause an allergic skin reaction.H332 Harmful if inhaled.H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
	Supplemetal hazard information (EU):	-		
2.3.	Other hazards			
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			

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)			
111-30-8/ 203-856-5/ 605-022-00-X	-	4- 5 %	glutaraldehyde	Acute. Tox. 3; H331 Acute Tox. 3; H301 Skin Corr. 1B; H314 Resp. Sens. 1; H334 Skin Sens. 1; H317 Aquatic Acute 1; H400			

SECTION 4. First aid measures



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION						
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

4.1.	Description of first aid meas	ures			
	General notes:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Immediately remove any clothing soiled by the product.			
	Following inhalation:	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.			
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap and rinse thoroughly. If symptoms persist, consult a doctor.			
	Following eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.			
	Following ingestion:	DO NOT induce vomiting. If symptoms persist, consult a doctor.			
	Self-protection of the first aider	Avoid direct contact with the chemical; use appropriate protective equipment described in Section 8.			
4.2.	Most important symptoms and effects, both acute and delayed				
	Following inhalation:	High concentration vapor inhalation may cause headache, dizziness, difficult breathing and unconsciousness.			
	Following skin contact:	Causes skin irritation, redness, swelling. Prolonged or repeated contact causes defatting and dry skin.			
	Following eye contact:	Vapors irritate eyes. Splashing may cause irritation and redness.			
	Following ingestion:	Nausea, vomiting (danger of aspiration), diarrhoea. Aspiration may cause headache, vertigo, nausea, dazed feeling-unconsciousness/coma, possible hypothermia, reactions to the heart/circulatory system such as vasodilation (flush), hypotension, arrhythmia (possible ventricular fibrillation through cardiac sensitization), danger of central respiratory paralysis or of cardiac arrest; functional disturbance to the liver and kidneys and persistent disturbance to the CNS as sequelae.			
4.3.	Indication of any immediate	medical attention and special treatment needed			
	No further relevant information available.				

SECTION	SECTION 5. Firefighting measures						
5.1.	Extinguishing media	Extinguishing media					
	Suitable extinguishing media: CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.						
	Unsuitable extinguishing media: water with full jet						
5.2.	Special hazards arising from the sub	stance or mixture					
	Hazardous by products of fire:	Hazardous by products of fire: Formation of toxic gases is possible during heating or in case of fire.					
5.3.	Advice for firefighters						
	Use a self-contained open-circuit co	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.					



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION					
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

5.4.	Additional information
	Collect contaminated firefighting water separately.
	Do not contaminate the environment with extinguishing media.

SECTIO	ON 6. Accidental release me	asures				
6.1.	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency persor	nnel				
	Protective equipment:		Use personal protective equipment (see Section 8). Keep unprotected persons away.			
	Accident prevention methods:		Evacuate members of all non-essential personnel and those members without protective equipment. Do not breathe in vapor, ensure adequate ventilation and avoid contact with skin and eyes. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:		Mark the area using proper signs.			
6.1.2.	For emergency responders	:				
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).					
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 materials for	containmer	nt and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or o	clay barriers.			
6.3.2.	Cleaning up:	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and 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 tools that may cause sparks.				
6.4.	Reference to other sections	s				
	See Section 7 for informati	on on safe l	handling.			
	See Section 8 for informati	•	·			
	See Section 13 for ,disposa	l informatio	on.			

SECTIO	SECTION 7. Handling and storage		
7.1.	Precautions for safe handling		
7.1.1.	Protection measures		



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION					
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	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.	
	Measures to prevent aerosol and dust generation	າ:	Secure proper ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
	Other measures:		-	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. The	roughly was	h hands after work and before eating.	
7.2.	Conditions for safe storage, including any incom	patibilities		
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from source of heat, sunlight, and other incompatible substances.		
	Packaging materials:	Manufacti	urer's original packaging.	
	Requirements for storage rooms and vessels:	Keep awa	y from food and drink. Keep the containers sed.	
	Advices for storage equipment:	must be r	ge must be made of hard material; floors esistant to chemicals. There must be no directly leads into sewage system. Secure ntilation.	
	Further information on storage conditions:	and do no	ace the unused material in the storage room of use empty containers for storing other. Do not store with incompatible materials on 10).	
7.3.	Specific end use(s)			
	Recommendations:	-		
	Industrial sector specific solutions:	-		

SECTION 8. Exposure controls/personal protection									
8.1. Contr	8.1. Control parameters								
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values			
				ppm	mg/m³				
Glutaraldehyd	e	111-30-8		0.05/0.05	0.2/0.2	-			
Substance:	-								
EC No:	-	CAS No:	-						
DNEL									



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION					
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

Product cod	e:	G4-OT-X**	Date of compilation:		pilation:	21 Dec 2022	Version:	4
				Inc	lustrial			
Route of expo	osure:	Acute effect Acute eff			Chronic effect local		onic effect estemic	
Oral		-	-			-	-	
Inhalation		-	-			-	-	
Dermal		-	-			-	-	
Critical physic	al para	meters: solubility, fl	ammabil	ity, cor	rosivity:	-		
				Coi	nsumer			
Route of expo	osure:	Acute effect local	Д	cute et		Chronic effect local		onic effect estemic
Oral		-	-			-	-	
Inhalation		-	-			-	-	
Dermal		-	-			-	-	
PNEC								
Environmental protection target				PNEC				
Fresh water			No information available					
Freshwater sediments			No information available					
Marine water				No information available				
Marine sedim	ents			No information available				
Food chain				No information available				
Microorganis	ms in s	ewage treatment		No information available				
Soil (agricultu	ıral)			No information available				
Air					No infor	mation available		
8.2. E	Exposu	re controls						
8.2.1. <i>A</i>	Approp	riate engineering co	ontrols					
r	neasur	nce/mixture related es to prevent exposidentified uses:	lir⊖ :	Use personal protective equipment. Do not eat, drink or sm the workspace.			or smoke ir	
	Structu exposu	ral measures to prev re:	rent l	No information available				
	_	sational measures to exposure:		_	ation of w	ork in order to reducess.	ce other worker	's influence
	Гесhnic exposu	cal measures to prev re:				rkspace ventilation ir els in air below perm	•	1

Personal protection equipment:

8.2.2.



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION					
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

8.2.2.1.	Eye and face protection:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU)		
8.2.2.2.	Skin protection	•		
		Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Full contact:		
	Hand protection:	Glove material: Viton		
		Glove thickness: 0.7 mm Break through time: 480 min		
		Splash contact:		
		Glove material: Nitrile rubber Glove thickness: 0.4 mm		
		Break through time: 35 min		
	Other skin protection:	Complete suit protecting against chemicals, flame retardant antistatic protective clothing (EN 13688). The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.		
8.2.2.3.	Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use type ABEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).		
8.2.2.4.	Thermal hazards:	No information available		
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Section 6		
	Structural measures to prevent exposure:	Use modern equipment.		
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.		
	Technical measures to prevent exposure:	See Section 6		

SECTION 9. Physical and chemical properties					
9.1.	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	No information available		



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION					
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

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

SECTIO	SECTION 10.: Stability and reactivity						
10.1.	Reactivity:	No relevant information available.					
10.2.	Chemical stability:	The product is chemically stable under recommended storage conditions.					
10.3.	Possibility of hazardous reactions:	No dangerous reactions known.					
10.4.	Conditions to avoid:	Sources of heat, flamesa and sparks.					
10.5.	Incompatible materials:	Strong oxidizing agents.					
10.6.	Hazardous decomposition products:	Carbon monoxide.					

SECTION 11. Toxicological information										
11.1. Information	11.1. Information on toxicological effects									
Acute toxi	Acute toxicity:									
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results					



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Trade name:			GLUT	ARALDE	HYDE	4% BUFF	ERED SOLU	TION	
Product code:	G4-OT-X	〈 **	Date	of compi	lation	21 Dec	2022	Version: 4	
Oral:	No infor		-			lo information No information available		-	
Dermal:	No information available		-		No ir avail	nformation able	No inform available	nation	-
Inhalation: No information available		-		No ir avail	nformation able	No inform available	nation	-	
Specific ta	rget organ	toxicity -	single e	xposure (S	STOT-S	E):			
		Specifi	c effects	5		Targe	t organ		Note
Oral:	Oral: No information av				N	o informati	on available	-	
Dermal:	No information av				N	o informati	on available	-	
Inhalation:	No infor	mation av	ailable		N	o informati	on available	-	
Aspiration Irritation a		on		-					
		Exposi time		Species	E	valuation	Method		Note
Skin corrosion/irrita	ation	-	-		-		-	No in	formation available
Serious eye damage/irritation		-	_		-		-	No in	formation available
Sensitizati	on								
Skin sensitization:	No i	nformatio	n availal	ble					
Respiratory sensitization:	No i	nformatio	n availal	ble					
Symptoms	s related to	physical,	chemica	al, and tox	icologi	cal properti	es		
Oral exposure:	nausea, heart/cir ventricul of cardia	Nausea, vomiting (danger of aspiration), diarrhoea. Aspiration may cause headache, vertigo, nausea, dazed feeling-unconsciousness/coma, possible hypothermia, reactions to the heart/circulatory system such as vasodilation (flush), hypotension, arrhythmia (possible ventricular fibrillation through cardiac sensitization), danger of central respiratory paralysis or of cardiac arrest; functional disturbance to the liver and kidneys and persistent disturbance to the CNS as sequelae.							
Dermal exposure:	Causes s dry skin.		on, redn	ess, swelli	ng. Pro	olonged or r	epeated con	tact cau	uses defatting and
Inhalation exposure:	breathin	g and suff	ocating.	High con	centra	ion vapor ii	•	y cause	oat, cough, difficult headache, malaise orders.



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Trade name:		GLUTARALDEHYDE, 4	1% BUFFERED SOLU	TION	
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Dose No information available	Exposure time	onic, chronic) Species			
No information	time	Species			
	NI.	•	Method	Evaluation	n Note
	No No information available available		No information available	nformation information	
No information available	No information available	No information available	No information available	No information available	on -
No information available	No information available	No information available	No information available	No information available	on -
No information available	No information available	No information available	No information available	No information available	on -
No information available	information information i		No information available	No information available	on -
No information available	No information available	No information available	No information available	No information available	on -
No information available	No information available	No information available	No information available	No information available	on -
No information available	No information available	No information available	No information available	No information	on -
No information available No information available		No information available	No information available	No information available	on -
target organ toxici	<u> </u>	•			
	· · · · · · · · · · · · · · · · · · ·				Note
			No information available		-
					-
					-
	No information available arget organ toxici	No information available No information available	No information available No information available	No information available No information available	No information available No information available



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Trade name:		GLUTARALDEHYDE, 4% BUFFERED SOLUTION							
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4				

Subchro	onic dermal N	lo informatior	n available	No information available	-				
Subchro	onic inhalation N	lo informatior	n available	No information available	-				
Chronic oral No informatio		lo informatior	n available	No information available	-				
Chronic dermal No information		lo informatior	n available	No information available	-				
Chronic inhalation No informatio			n available	No information available	-				
	CMR effects (carcinogenicit	y, mutagenici	ty, reproducti	ve toxicity)					
	Carcinogenicity:	, 		ion available					
	Mutagenicity <i>in-vitro</i> :		No informat	ion available					
	Genotoxicity:		No information available						
	Mutagenicity <i>in-vivo</i> :			No information available					
	Germ cell mutagenicity :		No information available						
	Reproductive toxicity:		No information available						
	Summary of evaluation of properties:								
11.2.	Information on other hazar	ds:							
11.2.1.	Endocrine disrupting prope	rties:							
	No known endocrine disr that affect human health.	upting prope	erties						
11.2.2.	Other informations:								
	-								

SECTION 12. Ecolog	SECTION 12. Ecological information										
12.1. Toxicity											
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note					
Fish	LC ₅₀	96 hours	No information available	No information available	-	-					
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:	-	-	-	-	-	-					



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Trade name:		GLUTARALDEHYDE, 4% BUFFERED SOLUTION							
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4				

Product code:		G4-OT-X**	Date	of compilation:	21 D	ec 2022	Version:	4
Chronic (long-t	erm)	Doza	Exposure time	Species		Method	Evaluation	Note
Fish		LC ₅₀	96 hours	No information available	i	No nformation available	No information available	-
Crustacea:		EC ₅₀	48 hours	No information available	i	No nformation available	No information available	_
Algae/aquatic plants:		IC ₅₀	72 hours	No information available	i	No nformation available	No information available	-
Other organism	ıs:	-	-	-	-	_	-	-
		and degradab	ility					
	De	egradation ha	lf-lives	Method		1	Evaluation	Note
Marine water	No in	formation ava	ailable	No information availa	able	No inform	nation available	-
Fresh water	No in	formation ava	ailable	No information availa	able	No inforn	nation available	-

Degradation half-lives	Method	Evaluation	Note
No information available	No information available	No information available	–
No information available	No information available	No information available	-
No information available	No information available	No information available	-
No information available	No information available	No information available	-
	No information available No information available No information available	No information available No information available No information available No information available No information available	No information available No information available

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

12.3. Bio	3. Bioaccumulative potential						
Oc	tanol-water partition o	coefficient	t (log Ko	w)			
Value	Concentration	рΗ	°C	Method	Evaluation	Note	
-	No information available	-	-	No information available	No information available	-	

Bioconcentration Factor (BCF)



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION				
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

V	/alue		Species		М	ethod	Εν	aluation		Note	Э
No information available			No information available				No info	ormation le	-		
	Chroni	ic ecotoxici	ty								
	Value	e	Dose		osure ime	Species	ľ	Лethod	Eval	uation	Note
Chronic	c toxicity	y on fish	LC ₅₀	No inform availal		No information available	1	rmation ilable	No inform availab		-
	c toxicity ea (Daph		EC ₅₀	No inform availal		No information available	_	rmation ilable	No inform availab	1	-
12.4.		ity in soil									
12.4.	Known No info			ution in er	nvironme	ental compar	tments:				
12.4.	Known No info	n or predict		ution in er	nvironme	ental compar Concent			Method		Note
12.4.	Known No info	or prediction and the tension: Value information	vailable	°C	mation	•	ration	No info	Method		Note -
12.4.	No info	or predictor formation avec tension: Value information	ation No	°C o inforr	mation	Concent No informat	ration	No info			
Transpo	No info Surface No availab	or prediction and the tension: Value information	ation No average or pation icient	°C o inforr ailable	mation	Concent No informat	ration	No info	ormation	available	
	No info Surface No availab Adsorp	ror predictors formation and the tension: Value information ble ption / descent A/D coeff Henry's co	ation No average or pation icient	°C D informailable	mation Kow formation	Concent No informat available Evaporat	ration ion		hod mation	available	-
Transpo	No info Surface No availab Adsorp	ror predictors or predictors o	ation No average or pation icient icient	°C o inforr ailable log No inf available	mation Kow formation	Concent No informat available Evaporat n No informavailable	ration ion ion rate nation	Met No infori	hod mation	available	-

12.5. Results of PBT and vPvB assessment



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Trade na	ıme:		GLUTARALDEHYDE,	4% BUFFERED SO	LUTION	
Product	code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4
			ins no components conside and very bioaccumulative (•		nulative and
12.6. E	Endocrine	disrupting propert	es			
a	according	to REACH Article 5	not contain components co 7(f) or Commission Delegat evels of 0.1% or higher.		•	
12.7.	Other adv	erse effects				
١	No inform	nation available				
CECTION	42.01	1 11 11				
13.1.		osal consideration processing methods	S			
13.1.	waste p	nocessing methods				
13.1.1.	Product	/Packaging disposa	l:			
	Submit Protection	•	egal person authorized by t	he Ministry of Enviro	onmental and N	ature
13.1.2.	Waste c	odes/waste designa	ntions according to Low:			
	Disposa	l must be made acc	ording to official regulation	S.		
13.1.3.	Waste ti	retment – relevant i	nformation			
	No info	rmation available				
13.1.4.	Sewage	disposal – relevant	information:			
			d of into the sewage systen	า.		
12.1.5	O4b a = 4	·	-4:			
13.1.5.	Do not of authorize the pack	ed by the ministry i	ations: uct's remains into the sewa n charge. Do not dispose o tors authorized by the minis	f the packaging into	the sewage syst	em. Submit
13.1.6.	Relevan	t Community provis	ions:			
SECTION	14. Tran	sport information				
		ing/shipment by roa	ad (ADR)			



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION				
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inland	waterways (ADN)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk condition in accordance with Annex II. of MARPOL 73/78 and IBC Codex:	_
Transporting/shipment by air (IC.	AO-TI/IATA-DGR)
UN number:	3334
UN proper shipping name:	Aviation regulated liquid, n.o.s. (Glutaraldehyde)
Transport hazard class(es):	9
Packing group:	Ш
Environmental hazards:	-



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION				
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Special precautions for us	er:	-
Further information:	-	

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

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



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Trade name:	GLUTARALDEHYDE, 4% BUFFERED SOLUTION				
Product code:	G4-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classification		Classification procedure		
-		-		
16.5.	Relevant H statements (num	ber and full text)		
	H301 H302 H314 H: H317 H331 H332 H334 H400	Toxic if swallowed. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic if inhaled. Harmful if inhaled May cause allergy or asthma symptoms or breathing difficulties if inhaled Very toxic to aquatic life.		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packaging of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to Chemical safety assessment

-



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Trading name:	HEMATOXYLIN G3				
Product code:	HEMG3-OT-X**	Revision date:	03 April 2023	Version:	7

1.1.	ON 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING Product identifier					
	Trading name:	HEMATOX	'LIN G3			
	Chemical name:	-				
	Catalogue number:	HEMG3-OT-X**				
1.2. Relevant identified uses of the substance or mixture and uses advis				ture and uses advised against		
	Uses: Uses advised against:		Hematoxylin according to Gill for nuclear staining.			
			Only the identified uses are advised.			
	Reason why uses advi	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				
	Address: M Telephone number: +3 Fax no.: +3		BioGnost Ltd.			
			Medjugorska 59, Zagreb			
			+385 1 2409997			
			+385 1 2404039			
			msds@biognost.hr			
	e-mail of competent p	person: <u>n</u>	<u>nsds@biognc</u>	<u>ost.hr</u>		
	e-mail of competent p	person: <u>n</u>	nsds@biogno	<u>ost.hr</u>		
1.4.		-	nsds@biogno	ost.hr		
1.4.	National contact:	number -		112		
1.4.	National contact: Emergency telephone	number -				

SECTION 2 HAZARDS INFORMATION						
2.1.	Classification of the substance or mixture					
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)					
	Hazard class and category code: Hazard statements*:					
	Acute Tox. 4		H302			
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Haz	ard-statements: see S	Section 16			
2.2.	Label elements					
	Product identification:	HEMATOXYLIN G	53			
	Identification number:	-				
	Authorization no.:	-				



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Trading name:	HEMATOXYLIN G3				
Product code:	HEMG3-OT-X**	Revision date:	03 April 2023	Version:	7

	Hazard pictograms:	GHS07			
	Signal word:	Warning			
	Hazard statements:	H302 Harmful if swallowed.			
	Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.			
	Supplemetal hazard information (EU):	-			
2.3.	Other hazards				
	Endocrine Disrupting Prop	erties:			
	No known endocrine disrupting properties				
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not a PBT or a vPvB.				

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)				
107-21-1/ 203-473-3/ 603-027-00-1	01-2119456816- 28-xxxx	25 - 45 %	ethylene glycol	Acute Tox. 4, H302				

SECTI	ION 4 FIRST AID MEASURES	
4.1.	Description of first aid measu	ıres
	General notes:	-
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.



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Trading name:	HEMATOXYLIN G3					
Product code:	HEMG3-OT-X**	Revision date:	03 April 2023	Version:	7	

	Following ingestion:		Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.	
	Self-protection of the first ai	der:	Treat symptomatically.	
4.2.	Most important symptoms a	nd eff	ects, both acute and delayed	
	Following inhalation:	Inhalation of large amounts of vapors in inadequately ventilated perimeter may cause coughing, sneezing, headache and nausea.		
	Following skin contact:	Slight irritation. After short exposure, resorption effects are not likely. Lon term exposure may cause drying, cracking and tingling sensation of skin.		
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation aburning sensation. If the symptoms persist, immediately call a physician		
	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the mount burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.		
4.3.	Indication of any immediate medical attention and special treatment needed			
	-			

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

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).			



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	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.	
	Emergency procedures:	Mark the area using proper signs.	
6.1.2.	For emergency responders:		
	Wear protective equipment (s	see Section 8).	
6.2.	Environmental precautions:		
	Do not dispose of in sewage, Protection and Rescue Direct	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.	
6.3.	Methods and material for containment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.	
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.	
6.3.3.	Other information:	-	
6.4.	Reference to other sections		
	See Section 7 for information about secure handling.		
	See Section 8 for information about personal protective equipment.		
	See Section 13 for information about containment.		

SECTIO	SECTION 7 HANDLING AN STORAGE					
7.1.	Precautions for safe handling	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:	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					



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	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms, and away from sources of heat, sunlight, and other incompatible substances.
	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8 EX	(POSUF	RE CON	TROLS/PER	SONAL	PROTECTION			
8.1. Conti	rol para	meters						
Substance			CAS No			Occupational exposure limit values/short term values		ological limit values
					ppm	mg/m³	mg/m³	
Ethylene glyco	ol		107-21	1-1	20/40	52/104	No infor	mation available
Substance name:	_							
EC No:	-		CAS No:	_				
DNEL								
					Industrial			
Route of		Α	cute		Acute	Chron	iic	Chronic
exposure:		effe	ect local	effe	ect systemic	effect lo	ocal	effect systemic
Oral		-		-		-		-
Inhalation -		-		-		35 mg/ kg (ethylene gly	col)	
Dermal -		-		-		-		106 mg/kg (ethylene glycol)
Critical physical	al paran	neters: s	olubility, fla	mmabili	ty, corrosivity:	-		
					Consumer			



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Route of exposure:			Acut effect sys	~	Chronic effect local	Chronic effect systemic	
Oral		-	-		-	-	
Inhalation		-	-		7 mg/kg (ethylene glycol)	-	
Dermal		-	-		-	53 mg/kg (ethylene glycol)	
PNEC							
Environme	ental protec	ction target		PNEC			
Fresh wate	er			10 mg/l	(ethylene glycol)		
Freshwate	r sediments	S		37 mg/k	g (ethylene glycol)		
Marine wa	iter			1 mg/l (e	ethylene glycol)		
Marine see	diments			3.7 mg/k	g (ethylene glycol)		
Food chair	n			No infor	mation available		
Microorga	ınisms in se	wage treatment		199.5 mg/l (ethylene glycol)			
Soil (agric	ultural)			1.53 mg/kg (ethylene glycol)			
Air				No infor	mation available		
8.2.	Exposure	e controls					
8.2.1.	Engineer	ring measures					
	measure	measures to prevent exposure			e the product in well ventilated rooms. Use personal protective uipment. Do not eat, drink or smoke in the workspace.		
	Structura	al measures to preve	ent No info	No information available Organization of work in order to reduce other worker's influence during work process.			
		ational measures to exposure:					
	Technica exposure	al measures to preve e:			rkspace ventilation in or els in air below permitte	•	
8.2.2.	Personal	protection equipm	ent				
8.2.2.1.	Eye and	face protection:	Safety o	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin pro	tection	<u>.</u>				
	Hand pro	otection:	Glove r Glove t	naterial: ni hickness: ≥	e according to standard I trile rubber £0.11 mm ne: >480 min	EN 374.	



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	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	filter f	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No inf	formation available			
8.2.3.	Environmental exposure	controls				
	Substance/mixture related measures to prevent exposure:		See Section 6			
	Structural measures to prevent exposure:		Use modern equipment.			
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.			
	Technical measures to prevent exposure:		See Section 6			

.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	liquid	No information available				
	Color:	dark red	No information available				
	Odour/odour threshold:	no information available	No information available				
	Melting point / freezing point:	No information available	No information available				
	Boiling point or initial boiling point and boiling range:	No information available	No information available				
	Flammability:	No information available	No information available				
	Lover and upper explosion limit:	No information available	No information available				
	Flash point:	No information available	No information available				
	Auto-ignition temperature:	No information available	No information available				
	Decomposition temperature:	No information available	No information available				
	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				



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	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.				
10.3.	Possibility of hazardous reactions:	With strong oxidants, sodium-hydroxide, sulfuric acid, aluminum.				
10.4.	Conditions to avoid:	Sources of heat, sparks, and ignition.				
10.5.	Incompatible materials:	Aluminum.				
10.6.	Hazardous decomposition products:	No information available.				

SECTIO	ON 11 TOXIC	OLOGICAL INFORM	ATION					
11.1.	Informatio	n on hazard classes as	s defined in Reg	gulation (EC) No 1272	2/2008			
	Acute toxic	city:						
Route of exposure:		Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results		
Oral ex	posure:	anhydrous (ECHA)	rabbit	LD ₅₀	-	7.712 mg/kg (ethylene glycol)		
Dermal exposure:		anhydrous (ECHA)	rat	LD ₅₀	-	>3.500mg/kg (ethylene glycol)		
Inhalat exposu	_	No information available	-	LC ₅₀	-	-		
	Specific tar	get organ toxicity – s	ingle evnosure	(STOT SE):				
	Specific tar		fic effects	Target	organ	Note		
Oral ex	posure:	No information		No informatio		-		
Derma	l exposure:	No information	available	No informatio	n available	_		
Inhalat	ion exposure	: No information	available	No information available		_		
Respiratory irritation:			No info	No information available				
			:					
	Irritation a	nd corrosion						



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Product code:	HEMG3-OT-X [*]	** Re	vision date:	03 April 202	23 Version:	7			
Skin irritation:	-	rabb	it -	-	Slight irritation	on (ethylene			
Eye irritation:	24 h	rabb	it -	-	Slight irritation glycol)	on (ethylene			
Sensitiz									
Dermal exposure Inhalation exposure:	No information								
Sympto	ms related to the ph	nysical, chemic	al and toxicolog	gical characterist	ics				
Oral exposure:	No informati	ion available	_						
Dermal exposure	e: No informati	ion available							
Inhalation expos	ure: No informati	on available							
Eye exposure:	Causes serio	us eye damage	9						
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)						
	Dose	Exposure time	Species	Method	Evaluation	Note			
Subacute oral	No information available	No information available	No information available	No information available	No information available	-			
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-			
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-			
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-			
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-			
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-			
Chronic oral	No information available	No information available	No information available	No information available	No information available	-			



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Trading name:				HEN	IATO	OXYLIN G3				
Product code:	НЕ	MG3-OT-X*	** Re	evision date	e:	03 April 202	3	Version:	7	
Chronic dermal	No availa	information able	No information available	No information	on	No information available	No in availa	formation ble	_	
Chronic inhalation	No information			No No information ailable available		No information available	No information available		-	
Specific	target	organ tovicit	y – repeated e	yposuro (SI	OT I	DE).				
Specific	target		pecific effects	•	011	Target orga	an		Note	
Subacute oral			ation available		No i	nformation avai		_	11010	
Subacute derma						nformation avai		-		
	Subacute inhalation No information					nformation avai		-		
Subchronic oral		No informa	ation available		No i	No information available				
			ation available			No information available		-	-	
			ion available No		No information available		-	-		
Chronic oral	Chronic oral No information				No i	nformation avai	lable	-		
Chronic dermal		No informa	ation available	on available No		No information available		-		
Chronic inhalation	n	No informa	ation available		No i	nformation avai	lable	-		
CMR ef	fects (ca	arcinogenicit	y, mutagenicit	y, reproduc	tive t	oxicity)				
Carcino	genicity	y :	Current s	studies on te	est ai	nimals did not in	idicate d	carcinogenio	effects.	
Mutage	nicity <i>ii</i>	n-vitro:	Current	in vitro tes	ts d	d not indicate	nutagei	nic effects.		
Genoto	xicity:		No inform	mation avail	able					
Mutage	nicity <i>ii</i>	n-vivo:	Current	Current in vivo tests did not indicate mutagenic effects.						
Germ ce	ell muta	agenicity:		mation avail						
Reprod	uctive t	oxicity:	No toxio organs.	No toxicity on reproductive organs was determined in reproductive organs.					reproductive	
Summa	ry of ev	aluation of t	he CMR prope	erties: -						
11.2. Informa	tion or	other hazard	ds:							
11.2.1. Endocri	ne disr	upting prope	rties:							
	nown ies that	endocrine affect huma	disrupting n health.							
11.2.2. Other ir	nformat	ions:								
-										



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12.1. Toxic	ity								
Acute (short-toxicity	erm)	Dose	Exposu time	Species	M	lethod	Eva	luation	Note
Fish		LC ₅₀	96 hour	rs Fish		No ormation vailable		60 mg/l ene glycol)	-
Crustacea:		EC ₅₀	48 hour	rs water flea		No ormation railable		00 mg/l ene glycol)	_
Algae/aquatic	plants	IC ₅₀	8 days	algae		No ormation railable		3.000 mg/l ene glycol)	_
Microorganisn	าร	LC ₅₀	72 hour	'S -	-			-	_
Chronic toxicit	у	Dose	Exposu time	Snaciae	N	lethod	Eva	luation	Note
Fish		LC ₅₀	96 hour	No informatio available	into	rmation lable	No info availabl	rmation e	-
Crustacea:		EC ₅₀	48 hour	No informatio available	info	rmation lable	No info availabl	rmation e	_
Algae/aquatic	plants	IC ₅₀	72 hour	No informatio available	into	rmation lable	No info availabl	rmation e	_
Other organis	ms	-	-	-	-		-		_
					*			·	
12.2. Persis	tence a	nd degradal	oility						
Abiot	ic degra	ndation		:					
	Deg	radation hal	f-lives	Method			Evaluat	ion	Note
Marine water		ormation av		No information av	ailable	No info	mation a	vailable	-
Fresh water	•	ormation av		No information av			mation a		-
Air		ormation av		No information av			mation a		-
Soil	No inf	ormation av	ailable	No information av	ailable	No info	mation a	vailable	-
5: 1	1								
i	gradati		,			- ·	•		
% Degradatio		Time (day		Method No information	N	Evaluat o informa		No informat	
available		ilable		available		ailable		available	



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Tradin	g nam	e:						н	ЕМАТО	XYLIN G3			
Produ	ct code	e:	HEMO	G3-OT	-X**		Revi	sion d	ate:	03 April 202	23	Version:	7
12.3.	Bioac	cumu	lative p	otentia	al								
	Partit	ion co	efficie	nt: n-o	ctanc	l/wate	r (log Ko	ow):		:		:	
Valu	ıe	Con	centra	tion	р	Н	°C	M	ethod	Evalu	ation	l	Vote
_		No availa	inform ble	nation	_	-	_	No info availab	ormatior le	No inform available	nation	-	
		ncent	tration	factor (
	/alue			Speci				Method		Evaluation		Note	
No information No available available			form	mation No info availab		ormation ble		No information available		No information available			
	Chroi	nic ec	otoxicit	ty									
	Valu	ıe		Do	se		osure me	Sp	ecies	Method	Eva	luation	Note
Chroni	c toxicit	ty on 1	fish	LC ₅₀		No information available		No information available		No information available	No information available		-
	c toxicit cea (<i>Da</i>		1	EC ₅₀		No infori availa	mation able	No infor availa	mation able	No information available	No info	ormation ble	-
12.4.	Mobi	lity in	soil										
				ed distr	ibuti	on in e	nvironm	nental d	compart	ments:			
	No in	ıforma	ation av	/ailable									
	Surfa	ce ten	sion:										
	V	alue		°C		C	oncentra	ition		Method		No	te
	No inforr availa	mation able		ormati ailable	on		informa ilable	tion	No inf availat	ormation ble	-		
	1		<u> </u>			<u> </u>			<u> </u>		<u> </u>		



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	Adsorption / desorption				
Transpo	A/D coefficient rt Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wate	er No information available	No information available	No information available	No information available	-
Water-ai	No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB asses	sment			
	Based on available data, the p		contain any PBT or v	PvB substances.	
			, , , , , , , , , , , , , , , , , , ,		
12.6.	Endocrine disrupting propert	es			
	No known endocrine disrupti		affect the environm	nent.	
		31 1			
12.7.	Other adverse effects				
	No adverse effects are expect	ed.			
i	·				
SECTION	N 13 DISPOSAL CONSIDERA	ΓΙΟΝS			
SECTION 13.1.	Waste treatment methods	TIONS			
		TIONS			
13.1.	Waste treatment methods	l:	rized by the Ministr	y of Environmental	and Nature
13.1.	Product/Packaging disposal Submit for disposal to the I Protection.	l: egal person autho		y of Environmental	and Nature
13.1.	Product/Packaging disposal Submit for disposal to the I Protection. Waste codes/waste designa	l: egal person autho		y of Environmental	and Nature
13.1. 13.1.1.	Product/Packaging disposal Submit for disposal to the I Protection.	l: egal person autho		y of Environmental	and Nature
13.1. 13.1.1. 13.1.2.	Waste treatment methods Product/Packaging disposal Submit for disposal to the I Protection. Waste codes/waste designal No information available	l: egal person autho utions according to		y of Environmental	and Nature
13.1. 13.1.1. 13.1.2.	Waste treatment methods Product/Packaging disposal Submit for disposal to the I Protection. Waste codes/waste designal No information available Waste treatment – relevant	l: egal person autho utions according to		y of Environmental	and Nature
13.1. 13.1.1. 13.1.2.	Waste treatment methods Product/Packaging disposal Submit for disposal to the I Protection. Waste codes/waste designal No information available	l: egal person autho utions according to		y of Environmental	and Nature
13.1.	Waste treatment methods Product/Packaging disposal Submit for disposal to the I Protection. Waste codes/waste designal No information available Waste treatment – relevant	l: egal person autho itions according to information:		y of Environmental	and Nature



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13.1.5. Other disposal recommo	endations:
authorized by the minis	roduct's remains into the sewage system. Submit the remains to the collectors try 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 pr	ovisions:
-	
SECTION 14 TRANSPORT INFOR	MATION
Transporting/shipment by	road (ADR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by	rail (RID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport	t (ADN)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	_
Transporting/shipment by	sea (IMDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	



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Special precautions for us	er:	-
Transporting/ship	pment by air (ICA	AO-TI/IATA-DGR)
UN number:		Not subject to transport regulations.
UN proper shipping name:		-
Transport hazard class(es)	:	-
Packing group:		-
Environmentally hazardou	ıs:	-
Special precautions for us	er:	-
Further information:	The product is	not subject to classification.

15.1.	Safety, health and environ	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
		Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;
	Other EU regulations:	Directive 2004/42/CE of the European Parliament and of the Council of 21 Apr 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC;
		Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safet of workers from the risks related to chemical agents at work;
		Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;
		REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);



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

SECTIO	ON 16 Other information	
16.1.	Indication of changes:	-
16.2.	Abbreviations and acronyms	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
16.3.	Key literature references and source of data:	-
16.4.	Classification and procedure 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)
Classif	ication	Classification procedure
_		-
16.5.	Relevant H statements (num	ber and full text)
	H: 302	Harmful if swallowed.
16.6.	Training advice:	-
16.7.	** "X" in the product code marks different volumes (different packaging the product) We are not responsible for consequences in case of failure to comply we 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:	SUDAN BLACK B REAGENT					
Product code:	SBB-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

SECTION	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier	•			
	Trading name:	SUDAN BLA	SUDAN BLACK B REAGENT		
	Chemical name:	-	-		
	Catalogue number:	SBB-OT-X**	r		
1.2	Relevant identified use	es of the subst	tance or m	nixture and uses advised against	
	Uses:		For use	in hematology, used with Sudan Black B kit.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advi	sed against:	duct is intended for use only as an <i>in vitro</i> diagnostic medical registered at the Agency for Medicinal Products and Medical and there is no reason to use it for other purposes.		
1.3	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone number				
	National Protection and Rescue Dire		ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	ION 2. Hazards identification					
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regulation (EC) No	o 1272/2008 (CLP)				
	Hazard class and category code:	Hazard statements*:				
	Flam. Liq. 2	H225				
	Acute Tox. 4	H302				
	Acute Tox. 4	H312				
	Acute Tox. 4	H332				
	Skin Irr. 2	H315				
	Eye Irr. 2	H319				
	Muta. 2	H341				
	STOT RE 2	H373				
2.1.2.	Additional information					
	-					



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Trading name:	SUDAN BLACK B REAGENT						
Product code:	SBB-OT-X**	Date of compilation:	21 Dec 2022	Version:	4		

*For f	ull text of Hazard- and EU Hazar	d-statements: see SECTION 16
2.2	Label elements	
	Product identification:	SUDAN BLACK B REAGENT
	Identification number:	-
	Authorization number:	-
	Hazard pictograms:	GHS02 GHS07 GHS08
	Signal word:	Danger
	Hazard statements:	 H225 Highly flammable liquid and vapor. H302+H312+H332 Harmful if swallowed, in contact with skin and if inhaled. H315 Causes skin irritation H319 Causes serious eye irritation H341 Suspected of causing genetic defects. H373 May cause damage to organs through prolonged or repeated exposure.
	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. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.



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Trading name:	SUDAN BLACK B REAGENT					
Product code:	SBB-OT-X**	Date of compilation:	21 Dec 2022	Version:	4	

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

SECTION 3. Co	SECTION 3. Composition/information on ingredients					
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610- 43-xxxx	50 - 70 %	ethanol	Flam. Liq. 2; H225		
108-95-2/ 203-632-7/ 604-001-00-2	01-2119471329- 32-xxxx	4 - 5 %	phenol	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Corr. 1B; H314 Muta. 2; H341 STOT SE 2; H373		

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



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Trading name:	SUDAN BLACK B REAGENT					
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	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.
4.3	Indication of any immediate medi	cal attention and special treatment needed
	-	

SECTION	ECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:	Water, foam, dry powder, CO ₂			
	Unsuitable extinguishing media:	No information available			
5.2	Special hazards arising from the su	ubstance or mixture			
	Hazardous combustion products:	Mixture with combustible ingredients. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire. Vapours are heavier than air and may spread along floors.			
5.3	Advice for firefighters				
	Use a self-contained open-circuit	compressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with contaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.			

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



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Trading name:					
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	Do not let product enter drain	ns. Risk of explosion.		
6.3	Methods and material for cor	ntainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Cover drains. Collect, bind, and pump off spills.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal in	formation.		

SECTIO	ECTION 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 open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Do not smoke.			
	Measures to prevent aerosol and dust generation	า:	Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		Protect against electrostatic charges.		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. The	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incom	patibilities			
	Technical measures and storage conditions:	well ventila	phtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	ırer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.		



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	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8.	Exposu	re contr	ols/perso	nal pro	tection				
8.1 Con	trol par	rameters							
Sub	stance		CAS No			Occupational exposure limit values/short term values		Biological limit values	
					рр	m	mg/m³		
Ethanol			64	-17-5	100	0/-	1900/-	-	
Phenol			108	3-95-2	2/	′ 4	8/16	120 mg/g of creatinine (0.14 mol/mol of creatinine), end of shift, urinary excretion	
Substance na	ıme:	-							
EC No:		-	CAS No	:	-				
DNEL		-1							
					Indu	strial			
Route of exposure:		Acu effect			Acute t systemic		Chronic effect local	Chronic effect systemic	
Oral		-		-	-	-		-	
Inhalation		1900 mg (ethanol)		-		-		380 mg/m³ (ethanol) 8 mg/m³ (phenol)	
Dermal		-		-		-		343 mg/kg (ethanol) 1.23 mg/kg (phenol)	
Critical physic	cal para	ameters: s	olubility,	flamma	bility, corro	sivity:	-	1 3 3 4 7	
					Cons	umer	:		
Route of exposure:			cute et local		Acute t systemic		Chronic effect local	Chronic effect systemic	
Oral		-		-	-	-		87 mg/kg (ethanol) 0.5 mg/kg (phenol)	



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Inhalation	950 mg/ m ³ (ethanol)	-	-	114 mg/m³ (ethanol) 0.452 mg/ m³ (phenol)		
Dermal				206 mg/kg (ethanol)		
Dermai	-	-	-	0.5 mg/kg (phenol)		
PNEC						
Environmental prote	ction target		PNEC			
Fresh water			0.96 mg/l (ethanol)			
Tresii watei			0.0077 mg/l (phenol)			
Freshwater sediment			3.6 mg/kg (ethanol)			
Freshwater sediment	.5		0.09125 mg/kg (phenol)			
Marine water			0.79 mg/l (ethanol)			
iviaririe water			0.00077 mg/l (phenol)			
Marine sediments			2.9 mg/kg (ethanol)			
ivianne sediments			0.00915 mg/kg (phenol)			
Food chain			380-720 mg/kg (ethanol)			
Microorganisms in se	Microorganisms in sewage treatment			2.1 mg/l (phenol)		
Call (annian brown)			0.63 mg/kg (ethanol)			
Son (agricultural)	Soil (agricultural)		0.136 mg/kg (phenol)			
Air	Air			no information available		

8.2	Exposure controls	Exposure controls		
8.2.1.	Appropriate engineering contro	ols		
	Substance/mixture related measures to prevent exposure 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 prevent exposure:		In accordance with Section 7.	
	Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent of	exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment			
8.2.2.1.	Eye and face protection:	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 protection			



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	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN 374. Full contact: Glove material: butyl rubber Glove thickness: 0.70 mm Break through time: > 480 min Splash contact: Gloves material: nitrile rubber Glove thickness: 0.40 mm Break through time: > 120 min
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

9.1	Information on basic physical and chemical properties				
		Value	Method		
	Physical state:	liquid	No information available		
	Colour:	black	No information available		
	Odour/odour threshold:	mild phenol like/no information available	No information available		
	Melting point / freezing point:	No information available	No information available		
	Boiling point or initial boiling point and boiling range:	No information available	No information available		
	Flammability:	No information available	No information available		



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	Flash point: Lover and upper explosion limit:	21°C No information available	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	SECTION 10. Stability and reactivity					
10.1	Reactivity:	See subsections 10.3 through 10.5.				
10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).				
10.3	Possibility of hazardous reactions:	No information available				
10.4	Conditions to avoid:	Heating.				
10.5	Incompatible materials:	No further relevant information available.				
10.6	Hazardous decomposition products:	No dangerous decompostion products known.				

SECTIO	SECTION 11. Toxicological information							
11.1	Information on toxicological effects							
	Acute toxicity:							
Route o		Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results		
Oral:		-	rat	LD ₅₀	-	10.470 mg/kg (ethanol)		
Dermal		-	rat	LD ₅₀	-	660 mg/kg (phenol)		
Inhalati	on:	-	rat	LC ₅₀	4 h	124.7 mg/l (ethanol)		



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	target organ toxicity	single expos	ure (STOT SE):			
	Specifi	c effects		Target organ		Note
Oral:	No information a	vailable	No info	No information available -		
Dermal:	No information a	vailable	No info	rmation availab	le -	
Inhalation:	No information a	vailable	No info	rmation availab	le -	
Aspirati	on hazard:	No	information av	ailable.		
Ė						
Irritatio	n and corrosion				1	
	Exposure tim	ne Species	Evaluation	Method		Note
Skin corrosion/irritati	on:	in vitro study	-	OECD 431	causes burr	ns (phenol
Serious eye damage/irritatio	n -	rabbit	-	OECD 405	corrosive (p	henol)
<u>_</u>	was related to the why					
			and toxicologi	cal characterist	ics	
Oral exposure:	No information	n available.	and toxicologi	cal characterist	ics	
Oral exposure: Dermal exposure	No information No information	n available. n available.	and toxicologi	cal characterist	ics	
Oral exposure: Dermal exposure Inhalation expos	No information No information No information	n available. n available. n available.	and toxicologi	cal characterist	ics	
Oral exposure: Dermal exposure	No information No information	n available. n available. n available.	and toxicologi	cal characterist	ics	
Oral exposure: Dermal exposure Inhalation expos Eye exposure:	No information No information No information	n available. n available. n available. n available.		cal characterist	ics	
Oral exposure: Dermal exposure Inhalation expos Eye exposure:	No information E. No information No information No information ded dose toxicity (subactions)	n available. n available. n available. n available. cute, subchron		cal characterist	Evaluation	Note
Oral exposure: Dermal exposure: Inhalation expos Eye exposure: Repeate	No information No information No information No information Pose No information No information No information No information No information	n available. n available. n available. n available. cute, subchron Exposure time No	iic, chronic)			
Oral exposure: Dermal exposure Inhalation expos Eye exposure:	No information No information No information No information No information Dose No information available No information available	n available. n available. n available. n available. cute, subchron Exposure time No information available	iic, chronic) Species No information	Method No information	Evaluation No information	-



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

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

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

CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)		
Carcinogenicity:	Based on available data, the classification criteria are not met.	
Mutagenicity in vitro:	Based on available data, the classification criteria are not met.	
Genotoxicity:	Based on available data, the classification criteria are not met.	
Mutagenicity in vivo:	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.	
Reproductive toxicity:	Based on available data, the classification criteria are not met.	



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	Summary of evaluation of the CMR properties:	Based on available data, the classification criteria are not met.		
11.2	Practical experiences:			
	Classification observations:	No information available		
	Other observations:	No information available		
11.3	General notes:			

12.1 Toxicity	/					
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Leuciscus idus (Golden orfe; ethanol) Oncorhynchus mykiss (rainbow trout; phenol)	-	-	8.140 mg/l (ethanol) 5.0 mg/l (phenol)
Crustacea:	EC ₅₀	48 hours	Daphnia magna (Water flea)	-	-	7.800 mg/l (ethanol) 3.1 mg/l (phenol)
Algae/aquatic plants	IC ₅₀	7 days	green algae	-	-	5.000 mg/l (ethanol) 61.1 mg/l (phenol)
Other organisms	-	-	-	-	-	-
Chronic (long- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	-	-	-
Crustacea:	EC ₅₀	48 hours	No information available	-	-	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	-	-	-
Other organisms	-	-	-	-	-	-



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	c degra	adation				:			
	De	egradation h	nalf-lives		Method	Evalu	ation		Note
Marine water	No i	nformation	available	No ir	nformation able	No inform available	ation	-	
Fresh water	No i	nformation	available	No ir	nformation able	No inform available	ation	-	
Air	No i	nformation	available	No ir	nformation able	No inform available	ation	-	
Soil	No ii	nformation	available	No ir availa	nformation able	No inform available	ation	-	
Biode	gradati	ion							
% Degradation		Time ((days)		Method	Evalua	tion		Note
94% (ethanol)		No ir available	nformation	OECI	O 301E	No inform available	ation	readily	biodegradable
85% (phenol)		14 days		OECI	O 301C	No inform available	ation	readily	biodegradable
12.3 Bioacc	umula	tive potenti	al						
Octano	ol-wate	er partition	coefficient		1	F	valuation		Note
Octano Value	ol-wate		coefficient pH	(log Ko °C -	w) Method experimental	E	/aluation	bi	Note ioaccumulation is ot expected
Octano	ol-wate Con	er partition	pH	°C	Method		/aluation	bi no bi	
Value -0,31 (ethanol) 1.47 (phenol)	Con -	er partition	pH -	°C -	Method experimental	-	valuation	bi no bi	ioaccumulation is ot expected ioaccumulation is
Value -0,31 (ethanol) 1.47 (phenol)	Con -	er partition of	pH (BCF)	°C -	Method experimental	-	valuation	bi no bi	ioaccumulation is ot expected ioaccumulation is
Octano Value -0,31 (ethanol) 1.47 (phenol) Biocor	Con ncentra	er partition of the contraction of the contraction factor (pH (BCF)	°C - 30 °C	Method experimental ECHA Method aformation	-	uation	bi no bi	ioaccumulation is ot expected ioaccumulation is ot expected
Octano Value -0,31 (ethanol) 1.47 (phenol) Biocor Value No information	Con ncentra	er partition of the contraction factor (Special of the contraction of the contraction factor (Special of the contraction of the contraction factor (Special of the contraction of	pH (BCF)	°C - 30 °C No ir	Method experimental ECHA Method aformation	- Eval	uation	bi no bi no	ioaccumulation is ot expected ioaccumulation is ot expected
Octano Value -0,31 (ethanol) 1.47 (phenol) Biocor Value No information available	Con ncentra	er partition of the contraction factor (Special of the contraction of the contraction factor (Special of the contraction of the contraction factor (Special of the contraction of	pH (BCF)	°C - 30 °C No ir	Method experimental ECHA Method aformation	- Eval	uation	bi no bi no	ioaccumulation is ot expected ioaccumulation is ot expected



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Chronic	toxicity on fish	LC ₅₀	information i	No nformation available	No informa availabl	i	o formation ⁄ailable	-
	toxicity on a (<i>Daphnia</i>)	EC ₅₀	information i	No nformation available	No informa availabl		o formation vailable	-
12.4	Mobility in soi	il						
	Known or pred	dicted distributi	on in environme	ntal compar	tments:			
	No informatio	n available						
	Surface tensio	n:						
	Value	°C	Concentration	on	Metho	d		Note
	No information available	No information available	No information	on No in availa	formation ble		-	
	Adsorption / c	desorption						
Transpo	rt :	coefficient 's constant	log Kow	Evaporat	ion rate	Met	thod	Note
Soil-wat	er No available	information	No information No informavailable available		mation	No information available		-
Water-a	ir No available	information	No information available	No inforr available	nation	No infor		-
Soil-air	No available	information	No information available	No inforr available		No infor		-
12.5.	Results of PBT	and vPvB asses	ssment					
	Based on avai	lable data, the p	product does not	contain any	PBT or vi	PvB subst	ances.	
12.6.	Endocrine disr	rupting properti	ies					
	Based on avai	lable data, does	not contain end	ocrine disru	ptors.			
12.7.	Other adverse	effects						
		evant information	on available.					
SECTIO	N 13. Disposal	consideration	S					



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Trading name:		EAGENT			
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13.1	Waste treatment methods	S				
13.1.1.	Product/Packaging dispos	sal:				
	Submit for disposal to the Protection.	e legal person authorized by the Ministry of Environmental and Nature				
13.1.2.	Masta sadas/wasta dasis	nations assauding to Laws				
13.1.2.	Waste codes/waste desig	3				
	substances	contains residual hazardous substances or is contaminated with hazardous				
13.1.3.	Waste treatment – relevan	nt information:				
	No information available					
13.1.4.	Sewage disposal – relevar	nt information:				
13.1.4.		sed of into the sewage system.				
	Traste mast not be dispos	see of line are seriage system.				
13.1.5.	Other disposal recommer	ndations:				
	authorized by the ministry	duct's remains into the sewage system. Submit the remains to the collectors y in charge. Do not dispose of the packaging into the sewage system. Submit ectors authorized by the ministry in charge.				
13.1.6.	Relevant Community prov					
	Disposal must be made a	cording to official regulations.				
SECTION	N 14 TRANSPORT INFORM	ATION				
	Transporting/shipment by r	road (ADR)				
UN num		1170				
	er shipping name:	Ethanol solution				
•	rt hazard class(es):	3				
Packing		II .				
	nentally hazardous:	-				
Special p	precautions for user:	-				
	Transporting/shipment by r					
UN num		1170				
	er shipping name:	Ethanol solution				
Transpo	rt hazard class(es):	3				
Packing	group:	II				



SAFETY DATA SHEET

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

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Trading name:	SUDAN BLACK B REAGENT				
Product code:	SBB-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (ICA	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

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



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

SECTIO	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:		SUDAN BLACK B R	SUDAN BLACK B REAGENT		
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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)		
Classification		า	Classification procedure
-			-
16.5.	Relevant H statements (num		number and full text)
		H225	Highly flammable liquid and vapor.
		H301	Toxic if swallowed.
		H302	Harmful if swallowed.
	H:	H311	Toxic in contact with skin.
		H312	Harmful in contact with skin.
		H314	Causes severe skin burns and eye damage.
		H315	Causes skin irritation.
		H319	Causes serious eye irritation.
		H331	Toxic if inhaled.
		H332	Harmful if inhaled.
		H341	Suspected of causing genetic defects.
		H373	May cause damage to organs through prolonged or repeated exposure.
16.6.	Training advice: -		-
			** "X" in the product code marks different volumes (different packagings of the product)
		ther 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 res	ulting to chemical safety assessment
-	