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Trading name: SUDAN BLACK B FIXATIVE		( B FIXATIVE	•		
Product code:	SBBF-X**	Revision date:	13 December 2021	Version:	1

SECTI	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SUDAN BLA	ACK B FIXA	ATIVE	
	Chemical name:	-			
	Catalogue number:	SBBF-X**			
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	person:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards 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			
	Skin Sens. 1	H317			
	Eye Irr. 2	H319			
	STOT SE 3	H336			
	Muta. 2	H341			
		EUH066			
2.1.2.	Additional information				
	-				
*For fu	*For full text of Hazard- and EU Hazard-statements: see SECTION 16				
2.2	Label elements				



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Product identification:	SUDAN BLACK B FIXATIVE
Identification number:	-
Authorization number:	-
Hazard pictograms:	GHS02  GHS07  GHS08
Signal word:	Danger
Hazard statements:	<ul> <li>H225 Highly flammable liquid and vapor.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H341 Suspected of causing genetic defects.</li> </ul>
Precautionary statements:	P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke. P280 Wear protective gloves/protective clothing/eye/protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/attention.
Supplemetal hazard information (EU):	EUH066 Repeated exposure may cause skin dryness or cracking.
Other hazards	



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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)		
67-64-1/ 200-662-2/ 606-001-00-8	-	≥ 50 % - < 100 %	acetone	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066		
107-22-2/ 203-474-9 / 605-016-00-7	-	< 3 %	glyoxal%; ethandial%	Muta. 2; H341 Acute Tox. 4; 332 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317		

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:	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 effects, both acute and delayed			
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.		
	Following skin contact:	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.		



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SECTIO	SECTION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media:  Small fire - water spray, dry powder, CO <sub>2</sub> Large fire - water spray or alcohol resistant foam				
	Unsuitable extinguishing media: No information available.				
5.2	Special hazards arising from the substance 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.				
5.4	Additional information				
	Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.				

SECTIO	CTION 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:				
	Do not dispose of in sewage, or Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National rate (NPRD) on 112.			
6.3	Methods and material for cont	ainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and involved materials with water.			



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6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections	Reference to other sections		
	See Section 7 for information on safe handling.			
	See Section 8 for information on personal protection equipment.			
	See Section 13 for disposal information.			

SECTIO	ON 7. Handling and storage			
7.1	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.	
	Measures to prevent aerosol and dust generation	on:	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.	2. Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. The	noroughly was	sh hands after work and before eating.	
7.2	Conditions for safe storage, including any incon	mpatibilities		
	Technical measures and storage conditions:	well ventila	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.	
	Packaging materials:		rer's original packaging. Unsuitable material acle: aluminium.	
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.	
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper .	
	Further information on storage conditions:	and do no	ice the unused material in the storage room t 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:	_		



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SECTION 8. Exposure controls/personal protection							
8.1 Control pa	arameters						
Substance	<u> </u>	CA	S No		•	exposure limit term values	Biological limit values
				ŗ	opm	mg/m³	
Acetone		67-	-64-1		500	1210	-
Substance name:	-						
EC No:	-	CAS No	: -				
DNEL							
	Industrial						
Route of	Acı	ute	Acut	e		Chronic	Chronic
exposure:	effect	local	effect sys	temic		effect local	effect systemic
Oral	-		-		-		-
Inhalation	-				-		1210 mg/m³ (acetone)
Dermal	-		-		-		186 mg/kg (acetone)
Critical physical par	rameters: s	solubility,	flammabilit	y, corr	osivity:	-	
			1	Cor	sumer		
Route of Acute		Acute			Chronic	Chronic	
exposure:	effec	t local	effect sys	stemic	effect local		effect systemic
Oral	-		-		-		-
Inhalation	-		-		200 mg/m³ (acetone)		) -
Dermal			-		62 mg/kg (acetone)		-
PNEC							
Environmental prot	tection tar	get			PNEC		
Fresh water					10.6 mg/l (acetone)		
Freshwater sedime	nts				30.4 mg/kg (acetone)		
Marine water					1.06 mg/l (acetone)		
Marine sediments					3.04 mg/	kg (acetone)	
Food chain					no information available		
Microorganisms in	sewage tr	eatment			100 mg/l (acetone)		
Soil (agricultural)					29.5 mg/kg (acetone)		
Air					no inforn	nation available	
8.2 Exposi	ure contro	ls					
8.2.1. Appro	priate eng	ineering	controls				



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	Substance/mixture related measure prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to preve	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	kposure:	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:	levels	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection				
	Hand protection:	Regula Full co	otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374.  Intact:  Glove material: butyl rubber  Glove thickness: ≥ 0.50 mm  Time until perforation: > 480 min  contact:  Glove material: nitrile rubber  Glove thickness: 0.4 mm  Break through time: 35 min		
	Other skin protection:	suitabl cover t of imp	e e footwear, such as rubber boots (EN 20345) or shoes that the entire foot. In case of spilling hazard, use clothing made ermeable material suitable for protection from liquid cals (Viton, PVC, himex) and footwear made from the same al.		
8.2.2.3.	Respiratory protection:	inadeo	concentration level exceeds the GVI values (or because of quate ventilation), use a filter for organic vapors, type "A" g point >65°C) according to EN 14387.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		
	Structural measures to prevent exposure:	Use m	odern equipment.		
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.		



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

Information on basic physical and	chemical properties	
	Value	Method
Physical state:	Liquid	No information available
Colour:	Light yellowish	No information available
Odour:	acetone like	No information available
Odor threshold:	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	No information available	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapour pressure:	No information available	No information available
Vapour density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	No information available	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	No information available	No information available

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



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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.

11.1	Informatio	n on toxico	logical effects						
	Acute toxic	city:							
Route o		Method	Speci	es	Dose LD <sub>50</sub> / or ATE <sub>m</sub>		Exposure ti	me Results	
Oral:		-	rat (acet	one)	LD <sub>50</sub>		-		>2,000 mg/kg
Dermal	<b>:</b>	-	rat (acet	one)	LD <sub>50</sub>		-		>2,000 mg/kg
Inhalati	ion:	-	rat (acetone)		LC <sub>50</sub>		4 h		20 mg/l
	Specific ta	rget organ	toxicity – single e	exposure	(STOT SE):				
	<u> </u>		Specific effects	•		arget orga	an		Note
Oral:	ral: No information available				No inform	ation avai	lable	-	
Dermal	ermal: No information available				No inform	ation avai	lable	_	
Inhalation: No infor			nation available		No inform	ation avai	lable	may ca or dizzi	use drowsiness ness
	Aspiration  Irritation a		n	No info	ormation avail	able.			
	iiiitatioii a		posure time	Spe	ecies Ev	aluation	Method		Note
Skin corrosi	on/irritation:	_	<del>p</del>		_		_	_	
Serious damag	s eye e/irritation	-		-			_	cause irrita	es serious eye tion
	Sensitization	on							
Skin se	kin sensitization: No information								
Respira	espiratory sensitization: No information a			available.					
	Cumptain	rolated to	the physical, che		d ********	sharasta	.:		



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Dermal exposure		No informati						
Inhalation expos	ure:	No informati						
Eye exposure:		No informati	on available.					
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)				
		Dose	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	-	
Subacute dermal	No availa	information able	No information available	No information available	No information available	No information available	-	
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No information available	-	
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available	-	
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-	
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-	
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-	
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-	
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-	
ï								
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):			
			Specific effec	ts	Target o	rgan	Note	
Subacute oral		No informa	ition available		No information	n available -		
Subacute derma	<u> </u>	No informa	ition available		No information	n available -		
Subacute inhalat	ion	No informa	tion available		No information available -			
Subchronic oral		No informa	tion available		No information	n available -		



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11.3	General notes:							
	Other observa	tions:		No information available				
	Classification o			No information available				
11.2	Practical exper							
	Summary of properties:	evaluation of the Cf	MR	Based on available data, the classificamet.	ation criteria are no			
	Reproductive t	oxicity:	Based on available data, the classification criteria are not met.					
	Germ cell muta	agenicity:	Based on available data, the classification criteria are not met.  Based on available data, the classification criteria are not met.  Based on available data, the classification criteria are not met.					
	Mutagenicity i	n vivo:						
	Genotoxicity:							
	Mutagenicity i	n vitro:	Bas	ed on available data, the classification o	criteria are not met.			
	Carcinogenicit	<b>y</b> :	Bas	ed on available data, the classification o	criteria are not met.			
	CMR effects (c	arcinogenicity; mutagenicit	y; re	productive toxicity)				
Chroni	c inhalation	No information available		No information available	-			
Chroni	c dermal	No information available		No information available	-			
Chroni	c oral	No information available		No information available	-			
Subchr	onic inhalation	No information available		No information available	-			
Subchr	onic dermal	No information available		No information available	-			

SECTION 12. Ecologic	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	fish	No information available	>1,000 mg/l (acetone)	-
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna	No information available	>1,000 mg/l (acetone))	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	algae	No information available	>1,000 mg/l (acetone))	-
Other organisms	-	-	-	-	-	-



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Chronic (long-t toxicity	erm)	Dose	Exposur time	е	Species	Method	Eva	aluation	Note
Fish		LC <sub>50</sub>	96 hours		information ailable	No information available	No in	formation ble	-
Crustacea:		EC <sub>50</sub>	48 hours	No information available		No information available	No in	formation ble	-
Algae/aquatic μ	olants	IC <sub>50</sub>	72 hours		information ailable	No information available	No information available		<b>-</b>
Other organism	าร	_	-	_		_	_		_
		nd degradak	oility						
Abioti	c degra		-I£ I;		Mathad	F I			.lata
	De	gradation h	ait-lives		Method	Evaluatio		<u> </u>	Note
Marine water	No ir	nformation a	vailable	availa	formation ble	No informatio available	011	-	
Fresh water	No ir	nformation a	vailable	No information available		No information available		-	
Air	No ir	nformation a	vailable	No in availa	formation ble	No informatio	n	-	
Soil	No ir	nformation a	vailable	No in availa	formation ble	No informatio available	on	-	
-	gradatio							_	
% Degradation		Time (d			Method	Evaluation			Note
No information available		No in available	formation	No in availa	formation ble	No informatio available	on	No inform available	ation
		ive potentia		log Vo	A))	:			
Value		ntration	pH	°C	Method	Evalu	Evaluation		Note
Value	COLICE	1100001	ייץ	_	Mictilou	Lvaic	200011		. 1010



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Valu	ıe	Species		N	1ethod		Eν	aluatio	on		Note
No inform available		o inform vailable	ation	No info availabl		1	No info		on	-	
С	Chronic ecot	oxicity									
,	Value	Dose	Exposure time		Spec	cies	Method	nod	Evaluation		Note
Chronic toxicity on		1 LC <sub>50</sub>	No infor availa	mation able	No information available		No information available		No information available		-
		EC <sub>50</sub>	No infor availa	mation able	No informa availab		No informa availab		No ation information		-
12.4 N	Nobility in sc	/III									
K	nown or pre	edicted distributi on available	on in e	environm	ental co	mpart	ments:				
K	No information	on available				mpart					
K N Si	No information Turface tension Value	on available		environm oncentra		mpart	ments: Metho	od			Note
K N Si	No information	on available	C No		tion ion I		Metho		-		Note
K N Si	No information Value No nformation vailable	on available on:  °C  No information available	C No	oncentra	tion ion I	No inf	Metho				Note
K N Si	No information Value No information vailable	on available on:  °C  No information available  desorption	C No	oncentra	tion ion I	No inf	Metho				Note
K N Si	Value Value No Information Vailable  Adsorption /	on available on:  °C  No information available	No ava	oncentra	tion ion I	No infavailab	Metho	1	Method	d	Note
K N Si N ir av	Value Value No nformation vailable Adsorption / Henr	on available on:  °C  No information available  desorption coefficient y's constant information	No ava	oncentra informat iilable og Kow	tion ion I	No infavailab	Metho formation ple on rate	1	nforma		Note
K N Si N ir a	Value Value No Information Vailable  Adsorption / Henr	on available on:  °C  No information available  desorption coefficient y's constant information e information	No ava	oncentra informat iilable og Kow nformation	Eva on No avai	No infavailab	Methoricon mation	No ii avail	nforma able nforma	tion	Note -



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***************************************	Not applic	cable.				
12.6	Other adv	erse effects				
12.0		r relevant information	n available			
	TVO TUTCHE	Televalle imorriatio	Travallable.			
SECTIO	N 13. Disp	osal considerations	<b>i</b>			
13.1	Waste ti	reatment methods				
13.1.1.	Product,	/Packaging disposal	:			
	Submit 1 Protection	•	egal person authorized by th	e Ministry of Environmenta	l and Nature	
13.1.2.	Waste c	odes/waste designa	tions according to Law:			
	Packagii	ng that contains resi	dual hazardous substances o	or is contaminated with haz	ardous substances	S
13.1.3.	Waste ti	reatment – relevant	information:			
	No infor	mation available				
13.1.4.	Sewage	disposal – relevant i	information:			
	Waste n	nust not be disposed	d of into the sewage system.			
13.1.5.	Other di	sposal recommenda	ations:			
10.1.3.	Do not o	dispose of the produ ed by the ministry in	act's remains into the sewage or charge. Do not dispose of ors authorized by the minist	the packaging into the sew		
13.1.6.	Relevan	t Community provisi	ons:			
	Disposa	l must be made acco	ording to official regulations.			
SECTIO	N 14 TRAN	ISPORT INFORMAT	<b>TION</b>			
	······································	ng/shipment by roa				
HM num	hor.		1090			

# Transporting/shipment by road (ADR) 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 rail (RID)



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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 (IC	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:	-
-	
Further information: -	

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



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Trading name:		SUDAN BLACK	( B FIXATIVE		
Product code:	SBBF-X**	Revision date:	13 December 2021	Version:	1

	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 1999 guideline)	9/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessment	
	None	

SECTIO	N 16. Other information			
16.1	Indication of changes:	-		
		PBT vPvB	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative.	
16.2	Abbreviations and acronyms:	LD <sub>50</sub>	Lethal dose, 50%	
		LC <sub>50</sub>	Lethal concentration, 50%	
		STOT SE	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:	-		
16.4. Classification and procedure us 1272/2008 (CLP)		sed to derive the	classification for mixture according to Regulation (EC)	
Classification		Classification procedure		
-				
16.5.	Relevant H statements (numbe	er and full text)		



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Trading name:		( B FIXATIVE	<u> </u>		
Product code:	SBBF-X**	Revision date:	13 December 2021	Version:	1

		225	Highly flammable liquid and vapor.		
H: 315		315	Causes skin irritation.		
317		317	May cause an allergic skin reaction.		
319		319	Causes serious eye irritation.		
		332	Harmful if inhaled.		
	336		May cause drowsiness or dizziness.		
	341		Suspected of causing genetic defects.		
		EUH066	Repeated exposure may cause skin dryness or cracking.		
16.6.	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 resulting to chemical safety assessment
-



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Trading name:	S				
Product code:	SBBP-OT-X**	Date of compilation:	13 December 2021	Version:	1

SECTI	ON 1: Identification of t	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SUDAN BLA	ACK B REA	GENT, PHENOL FREE	
	Chemical name:	-			
	Catalogue number:	SBBP-OT-X	**		
1.2	Relevant identified use	es of the subs	tance or n	nixture and uses advised against	
	Uses:		For use	in hematology, used with Sudan Black B Eco kit.	
	Uses advised against:		Only the	e identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	Emergency telephone number			
	National Protection ar	National Protection and Rescue Dire		112	
	Medical information: Other information:			+385 1 2348 342	
				-	

SECTION 2. Hazards identification						
2.1	Classification of the substance or mixture					
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)			
	Hazard class and category code: Hazard statements*:					
	Flam. Liq. 2		H225			
2.1.2.	Additional information					
	-					
*For ful	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16			
2.2	Label elements					
	Product identification:	SUDAN BLACK I	B REAGENT, PHENOL FREE			
	Identification number:	-				
	Authorization number:	-				



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Trading name:		SUDAN BLACK B REAG	ENT, PHENOL FREE		
Product code:	SBBP-OT-X**	Date of compilation:	13 December 2021	Version:	1

	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.
	Precautionary statements:	<ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke.</li> <li>P233 Keep container tightly closed.</li> <li>P403 + P235 Store in a well-ventilated place. Keep cool.</li> </ul>
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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	<70%	ethanol	Flam. Liq. 2; H225		
136-77-6/ 205-257-4/ -	-	<2%	4-hexylresorcinol	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Chronic 2; H411		

SECT	SECTION 4. First aid measures				
4.1	Description of first aid measu	res			
	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.			



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Trading nam	e:	SUDAN BLACK B REAG	ENT, PHENOL FREE	-	
Product code	e: SBBP-OT-X**	Date of compilation:	13 December 2021	Version:	1

	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.	
	Self-protection of the first aider:	-	
4.2	Most important symptoms and ef	fects, both acute and delayed	
	Following inhalation:	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 medical attention and special treatment needed		
	-		

SECTION	TION 5. Firefighting measures				
5.1	Extinguishing media				
	Suitable extinguishing media: Water, foam, dry powder, CO <sub>2</sub>				
	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 a 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).			



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Trading name:	SUDAN BLACK B REAGENT, PHENOL FREE				
Product code:	SBBP-OT-X**	Date of compilation:	13 December 2021	Version:	1

	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 (see Section 8).	case of inadequate ventilation use adequate airways protective equipment		
6.2	Environmental precautions:			
	Do not let product enter drains. Risk of explosion.			
6.3	Methods and material for con	tainment 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 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 See Section 8 for information	on safe handling. on personal protection equipment.		
	See Section 13 for disposal information.			

SECTIO	SECTION 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.			
	Other measures:	Protect against electrostatic charges.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.				
7.2	Conditions for safe storage, including any incompatibilities	es			



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Trading name:	S	J			
Product code:	SBBP-OT-X**	Date of compilation:	13 December 2021	Version:	1

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

SECTION 8. Expos	sure contr	ols/perso	onal protec	tion						
8.1 Control p	arameters									
Substance CA		CA	CAS No		Occupational exposure limit values/short term values			Biological limit values		
				рр	m	r	ng/m³			
Ethanol		64	-17-5	100	0/-	1	900/-	-		
		l		I			<u>'</u>			
Substance name:	_									
EC No:	-	CAS No	):							
DNEL										
				Indus	strial					
Route of	Acı	ıte	Acut	:e		Ch	ronic	Chronic		
exposure:	effect	local	effect sys	stemic		effect local effect syst		effect systemic		
Oral	-		-		-			-		
Inhalation	1900 mg (ethanol		-	-				950 mg/m³ (etha		950 mg/m³ (ethanol)
Dermal	-		-	-				343 mg/kg (ethanol)		
Critical physical pa	rameters: s	solubility,	flammabilit	y, corros	sivity:		-			
				Consi	umer					



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Trading name:	S				
Product code:	SBBP-OT-X**	Date of compilation:	13 December 2021	Version:	1

Route of		Acute	Acute	Chronic	Chronic			
exposure	) <b>:</b>	effect local	effect system	ic effect local	effect systemic			
Oral		-	-	-	87 mg/kg (ethanol)			
Inhalation	1	950 mg/ m <sup>3</sup> (ethanol)	-	effect local effect systemic  - 87 mg/kg (ethanol)  - 114 mg/m³ (ethanol)  - 206 mg/kg (ethanol)  - 0.96 mg/l (ethanol)  3.6 mg/kg (ethanol)  0.79 mg/l (ethanol)  no information available  10.63 mg/kg (ethanol)  no information available  10.63 mg/kg (ethanol)  10.63 mg/kg (ethanol)  10.63 mg/kg (ethanol)  10.64 mg/kg (ethanol)  10.65 mg/kg (ethanol)  10.66 mg/kg (ethanol)  10.67 mg/kg (ethanol)  10.68 mg/kg (ethanol)  10.69 mg/kg (ethanol)				
Dermal		-	-	-	206 mg/kg (ethanol)			
PNEC								
Environm	ental proted	tion target		PNEC				
Fresh wat	er			0.96 mg/l (ethanol)				
Freshwate	er sediments	5		3.6 mg/kg (ethanol)				
Marine w	ater			0.79 mg/l (ethanol)				
Marine se	diments			no information available				
Food chai	in			no information available				
Microorga	anisms in se	wage treatment		no information available				
Soil (agric	cultural)			0.63 mg/kg (ethanol)				
Air				no information available				
	3							
8.2	Exposure	e controls						
8.2.1.	Appropr	iate engineering o	controls					
		ce/mixture related exposure during i		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structura exposure	al measures to pro	event	In accordance with Section 7.				
	•	<b></b>						
	Organisa exposure	ational measures	to prevent	Organization of work in ord influence during work process.	ler to reduce other worker's			
	exposure	ational measures	•	influence during work process	ess. entilation in order to keep elow permitted levels. Secure			
8.2.2.	exposure Technica	ational measures t e:	event exposure:	influence during work processing secure proper workspace veconcentration levels in air between the secure proper workspace veconcentration levels in air between the secure processing security and security secur	ess. entilation in order to keep elow permitted levels. Secure			
8.2.2. 8.2.2.1.	exposure  Technica  Personal	ational measures to pre	event exposure:  ment  Safety levels of	influence during work processing secure proper workspace veconcentration levels in air bestations for rinsing eyes and glasses that stick to face (EN	ess. entilation in order to keep elow permitted levels. Secure d showering.  166) or visor in case of lower tive gas mask that covers the			



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Trading name:	SUDAN BLACK B REAGENT, PHENOL FREE						
Product code:	SBBP-OT-X**	Date of compilation:	13 December 2021	Version:	1		

	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) according to EN 14387) used when concentration levels exceed GVI.					
8.2.2.4.	Thermal hazards:	No information available					
8.2.3.	Environmental exposure controls						
	Substance/mixture related measures to prevent exposure:	See Section 6					
	Structural measures to prevent exposure:	Use modern equipment.					
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.					
	Technical measures to prevent exposure:	See Section 6					

SECTI	SECTION 9. Physical and chemical properties							
9.1	Information on basic physical and chemical properties							
		Value	Method					
	Physical state:	liquid	No information available					
	Colour:	black	No information available					
	Odour:	mild ethanol like	No information available					
	Odor threshold:	No information available	No information available					
	pH:	No information available	No information available					
	Melting point / freezing point;	No information available	No information available					
	Initial boiling point and boiling range:	No information available	No information available					



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Trading name:		SUDAN BLACK B REAGENT, PHENOL FREE						
Product code:	SBBP-OT-X**	Date of compilation:	13 December 2021	Version:	1			

	Flash point:	21°C	No information available
	Flash point:  Evaporation rate:  Flammability (solid, gas):  Upper/lower flammability or explosive limits:  Vapour pressure:  Vapour density:  Relative density:  Bulk density:  Solubility(ies):  Partition coefficient: n-octanol/water (log Kow):  Auto-ignition temperature:  Decomposition temperature:  Viscosity:  Explosive properties:  Oxidising properties:	No information available	No information available
		No information available	No information available
		No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	No information available	No information available
		No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	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 decomposition products known.				

SECTION 11. Toxic	SECTION 11. Toxicological information								
11.1 Information	Information on toxicological effects								
Acute toxi	Acute toxicity:								
Route of exposure:	Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure time	Results				
Oral:	-	rat	LD <sub>50</sub>	-	10.470 mg/kg (ethanol)				
Dermal:	-	rat	LD <sub>50</sub>	-	-				



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Trading name:			SUDAN B	LACK B RE	AGE	NT, PHEN	NOL FRE	E		
Product code:	SBBP-O	SBBP-OT-X**		Date of compilation:		13 December 2021			Version:	1
Inhalation: - rat			t	LC <sub>50</sub>		4 h 124.7 ı		7 mg/l (ethanol)		
Specific tar	get orga	n toxicity – si	ngle exposu	re (STOT SE)						
;		Specific ef	fects		Targ	get organ			Note	
Oral:	rmal: No information availab				ormat	ion availab	ole	-		
Dermal:	No info	rmation avail	able	le No information available			ole	-		
Inhalation:	No information available -				-					
Aspiration	hazard:		No ii	nformation a	vailab	ole.				
Irritation ar	nd corros	ion								
	Exp	osure time	Species	Species Evaluation		Method			Note	
Skin corrosion/irritation:	-		in vitro study	-	OE	ECD 431	-			
Serious eye damage/irritation	-		rabbit	-	OE	CD 405	-			
Sensitizatio	n									
Skin sensitization:		No informa	tion availabl	e.						
Respiratory sensitiza	ntion:	No informa	tion availabl	e.						
Symptoms	related t	o the physica	l, chemical a	ınd toxicolog	gical c	haracterist	tics			
Oral exposure:	No ir	nformation av	⁄ailable.	•						
Dermal exposure:	No ir	nformation av	⁄ailable.							
Inhalation exposure	: No ir	nformation av	⁄ailable.							
Eye exposure:	No ir	nformation av	/ailable.							

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	-



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-	Trading name:		SUDAN BLACK B REAG	ENT, PHENOL FREE	_	
F	Product code:	SBBP-OT-X**	Date of compilation:	13 December 2021	Version:	1

r roduct code.	JUL	Jr -O1-X	Dati	e or compliant	on. 13 Decem	1001 202 1	Version. I
				1	***		
Subchronic oral	No i availa	information ble	No information available	No information available	No information available	No information available	on -
Subchronic dermal	No i availa	nformation ble	No information available	No information available	No information available	No informatio available	on -
Subchronic inhalation	No i availa	information ble	No information available	No information available	No information available	No informatio available	on -
Chronic oral	No i availa	information ble	No information available	No information available	No information available	No informatio available	on -
Chronic dermal	No i availa	nformation ble	No information available	No information available	No information available	No informatic available	on -
Chronic inhalation			No information available	No information available	No information available	No informatio available	on -
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):		
			Specific effec	cts	Target o	rgan	Note
Subacute oral		No informa	ation available		No information	n available	-
Subacute derma	l	No informa	ation available		No information	n available	-
Subacute inhalat	ion	No informa	ation available		No information	n available	-
Subchronic oral		No informa	ation available		No information	n available	-
Subchronic derm	nal	No informa	ation available		No information	n available	-
Subchronic inhal	ation	No informa	ation available		No information	n available	-
Chronic oral		No informa	ation available		No informatior	n available	-
Chronic dermal		No informa	ation available		No information	n available	-
Chronic inhalation	on	No informa	ation available		No information	n available	-
			y; mutagenicit	y; reproductive			
Carcino							riteria are not met.
Mutage		n vitro:					riteria are not met.
Genoto							riteria are not met.
Mutage							riteria are not met.
		genicity:					riteria are not met.
Reprod	uctive to	oxicity:		Based on available data, the classification criteria are not met.			



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Trading name:		SUDAN BLACK B REAG	ENT, PHENOL FREE		
Product code:	SBBP-OT-X**	Date of compilation:	13 December 2021	Version:	1

	Summary of evaluation of the opposities:	CMR 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	y					
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Leuciscus idus (Golden orfe; ethanol)	-	-	8.140 mg/l (ethanol)
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna (Water flea)	-	-	9.268-14.221 mg/l (ethanol)
Algae/aquatic plants	IC <sub>50</sub>	7 days	green algae	-	-	5.000 mg/l (ethanol)
Other organisms	-	-	-	-	-	-
Chronic (long- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	-	-	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	-	-	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	-	-	-
Other organisms	_	-	-	-	-	-

# | 12.2 | Persistence and degradability | | Abiotic degradation | | Degradation half-lives | Method | Evaluation | Note | | Marine water | No information available | No information available | Available | -



Trading name:			S	UDAN	BLACK B RE	AGENT, P	HENOL F	REE		
Product code:	SBB	P-OT-X**		Date (	of compilatio	n: 13 D	ecember :	2021 \	/ersion:	•
Fresh water	No info	mation ava	ilable	No info	ormation ble	No inform available	ation	-		
Air	No info	lo information available		No info	ormation ble	No inform available	ation	-		
Soil	No info	mation ava	ilable	No info	ormation ble	No inform available	ation	-		
Biodea	radation									
% Degradatio		Time (day	/s)	I.	1ethod	Evalua	tion		Note	
94% (ethanol)	No		rmation	OECD		No inform available		readily b	iodegradable	<del></del>
-	-			-		_		-		
	I			1	į.					
12.3 Bioaccu	ımulative	potential								
Octano	l-water p	artition coe	fficient (	log Kow	)					
Value	Concen	tration	рН	°C	Method	E	valuation		Note	
-0,31 (ethanol)	-	-		-	experimental	-			eccumulation expected	ı is
	centration	factor (BC	F)		. 4 . 1				N	
Value	NI -	Species			Method		uation		Note	
No information available	No avail		mation	availab	ormation le	No informavailable		-		
Chronic	ecotoxic	ity						•		
<u> </u>	, ecoloxic		Fyn	osure						
Value		Dose		ime	Species	Metho	d Eva	aluation	Note	!
Chronic toxicity	on fish	LC <sub>50</sub>	No infor availa	mation able	No information available	No informati available	No on infor avail	mation able	-	
Chronic toxicity	on	EC <sub>50</sub>	No	mation	No information	No informat	No	mation	_	

#### 12.4 Mobility in soil

Known or predicted distribution in environmental compartments:



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			n available					
	Surf	face tensio	n:					
	,	Value	°C	Concentration	n Metho	od		Note
		No No information available available		No information available No information		n	-	
Transpo Soil-wa Water-a	ort	-	coefficient 's constant information	log Kow  No information available  No information available	Evaporation rate  No information available  No information available	Meth No inform available No inform available	nation	Note -
Soil-air	•	No available	information	No information available	No information available	No inform	nation	-
12.5	Res	ults of PBT	and vPvB asses	ssment				
12.5		ults of PBT		ssment				
	Not		e.	ssment				
	Not	applicable er adverse	e.					
	Not	applicable er adverse	e. effects					
12.6	Oth No	er adverse further rela	effects evant information	on available.				
12.6 <b>SECTIO</b>	Oth No	er adverse further rela	effects evant information	on available.				
12.6 SECTIO 13.1	Oth No	er adverse further rela . <b>Disposal</b> aste treatr	effects evant information consideration ment methods	on available. <b>s</b>				
12.6 SECTIO 13.1	Oth No DN 13 W	er adverse further rele . <b>Disposal</b> /aste treatr	effects evant information consideration ment methods kaging disposa	on available.  s	rized by the Ministr	y of Environ	nmental a	and Nature
12.6 <b>SECTIO</b> 13.1	Oth No DN 13 W	er adverse further related aste treatr	effects evant information consideration ment methods kaging disposa	on available.  s	rized by the Ministr	y of Environ	nmental a	and Nature
3.1 3.1.1.	Oth No ON 13 W	er adverse further related <b>Disposal</b> aste treatr roduct/Paceubmit for derotection.	effects evant information consideration ment methods kaging disposa lisposal to the le	on available.  s	,	y of Environ	ımental a	and Nature
12.6 SECTIO 13.1 13.1.1.	Oth No On 13 W Pr Su Pr	er adverse further release. Disposal daste treatment of the code o	effects evant information consideration ment methods kaging disposa lisposal to the le	on available.  s l: egal person author utions according to	,			
12.5 12.6 SECTIO 13.1.1. 13.1.2.	Oth No Oth Start S	er adverse further related aste treatment of the code	effects evant information consideration ment methods kaging disposa lisposal to the le	s  Egal person authoritions according to ontains residual ha	Law:			



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13.1.4.	Sewage disposal – releva	nt information:			
	Waste must not be dispo	sed of into the sewage system.			
13.1.5.	Other disposal recommer	ndations:			
	authorized by the ministr	oduct'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 pro	visions:			
	Disposal must be made a	ccording to official regulations.			
SECTIO	N 14 TRANSPORT INFORM	1ATION			
	Transporting/shipment by	road (ADR)			
UN num	nber:	1170			
UN prop	per shipping name:	Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing	group:	II .			
Environi	mentally hazardous:	-			
Special	precautions for user:	-			
	Transporting/shipment by	rail (RID)			
UN num	nber:	1170			
UN prop	per shipping name:	Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing	group:	II .			
Environi	mentally hazardous:	-			
Special	precautions for user:	-			
	Inland waterway transport	(ADN)			
UN num	nber:	1170			
UN prop	per shipping name:	Ethanol solution			
Transpo	rt hazard class(es):	3			
Packing	group:	II .			
Environi	mentally hazardous:	-			
Special	precautions for user:	-			
	Transporting/shipment by	sea (IMDG)			
UN num	nber:	1170			
UN prop	per shipping name:	Ethanol solution			
Transpo	ort hazard class(es):	3			



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

.1 Safety, health and envir	onmental regulations/legislation specific for the substance or mixture
EU regulations	
Authorization and/or re	strictions of use
Authorizations:	-
Restrictions:	-
Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council or registration, evaluation, authorization and restriction of chemical substance (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives



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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	

SECTION	ON 16. Other information				
16.1	Indication of changes:		-		
16.2	Abbreviations and acronyms:		PBT vPvB LD <sub>50</sub> LC <sub>50</sub> STOT SE	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure	
16.3.	Key literature references source of data:	and	-		
16.4.	Classification and proced	dure used	d to derive th	ne classification for mixture according to Regulation (EC)	
Classif	assification		Classification procedure		
-	-				
16.5.	Relevant H statements (r	number a	and full text)		
	H: 225 302 319 411	Harmf	ful if swallowe s serious eye		
16.6.	Training advice:	-			
16.7.	Further information: We instr		ct) e not respons	ct code marks different volumes (different packagings of the sible for consequences in case of failure to comply with or improper use of the product described in this material	

ANNEX: Exposure scenario resulting to chemical safety assessment
-

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Trading name:		LEUKOG	OGNOST HEM		
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<b>SECTI</b> 1.1.		ON 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING  Product identifier				
1.1.	Trading name:	LEUKOGNO	OST HEM			
	Chemical name:	-	OST TIEIVI			
	Catalogue number:	LKH-OT-X**				
1.2.	_	ses of the substance or mixture and uses advised against				
	Uses:			ylin according to Gill for nuclear staining.		
	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:	В	ioGnost Ltd			
	Address:	N	Medjugorska 59, Zagreb			
	Telephone number:	e number: +		-385 1 2409997		
	Fax no.: +		+385 1 2404039			
	e-mail of competent p	person: <u>n</u>	msds@biognost.hr			
	National contact:	-	-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection a	nd Rescue Dii	rectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:	Other information:		-		

SECTIO	SECTION 2 HAZARDS INFORMATION						
2.1.	Classification of the substance	e or mixture					
2.1.1.	Classification (REGULATION (E	EC) No. 1272/200	8 (CLP)				
	Hazard class and cate	gory code:		Hazard statements*:			
	Acute Tox. 4 H302						
2.1.2.	Additional information						
	-	-					
*For fu	ll text of Hazard- and EU Hazard	l-statements: see	Section 16				
2.2.	Classification according to EC	Classification according to EC Directive Nr. 1272/2008 CLP)					
	Product identification: LEUKOGNOST HEM						
	Identification number:	-					
	Authorization no.:	-					

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	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.
	Further information:	-
2.3.	Other hazards	
	-	

SECTION 3 CO	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS						
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	ldentification 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 %	ethylene glycol	Acute Tox. 4, H302			

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

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4.2.	Most important symptoms and effects, 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. Longterm exposure may cause drying, cracking and tingling sensation of skin.	
	Following eye contact:	Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.	
	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the mouth, burning sensation; higher levels of concentration may cause nausea, abdominal pain and vomiting. In case of vomiting, aspiration causes coughing, difficult breathing. Higher levels of concentration may cause suffocation.	
4.3.	Indication of any immediate medical attention and special treatment needed		
	-		

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

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. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Wear protective equipment (see Section 8).			

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

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

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	Further 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:	-

8.1. Control pa	rameters							
Substance		CAS No		Occupational exposure limit values/short term values		Bio	ological limit values	
				ppm	r	ng/m³		J
Ethylene glycol 107-21		1-1	20/40	5	52/104	No info	rmation available	
Substance - name: - EC No: -		CAS No:	-					
DNEL								
	1			Industrial				
Route of Acute effect local		Acute effect systemic			Chronic effect local		Chronic effect systemic	
Oral	-		-		-	-		-
Inhalation	-			-		35 mg/ kg (ethylene glycol)		-
Dermal	-		-		-			106 mg/kg (ethylene glycol)
Critical physical para	ameters: s	solubility, fla	mmabili	ty, corrosivity:		-		
				Consumer				
Route of exposure: ef		Acute ect local	effe	Acute ect systemic				Chronic effect systemic
Oral	-		-		-			-
Inhalation	-	-				ng/kg nylene glyd	col)	-
Dermal		,	-			53 mg/kg (ethylene glycol)		
PNEC								
Environmental prote	ection tar	aet		PNEC				

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Fresh wate	er			10 mg/l (ethylene glycol)	
Freshwate	r sediments			37 mg/kg (ethylene glycol)	
Marine wa	ater			1 mg/l (ethylene glycol)	
Marine se	diments			3.7 mh/kg (ethylene glycol)	
Food chai	n			No information available	
Microorga	anisms in sewage treatment			199.5 mg/l (ethylene glycol)	
Soil (agric	ultural)			1.53 mg/kg (ethylene glycol)	
Air				No information available	
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	during identified uses:  Structural measures to prevent exposure:  Organisational measures to  No inf			product in well ventilated rooms. Use personal protective lent. Do not eat, drink or smoke in the workspace.	
			No information available		
				zation of work in order to reduce other worker's influence work process.	
	Technical measures to pr exposure:	event		proper workspace ventilation in order to keep tration levels in air below permitted levels.	
8.2.2.	Personal protection equi	oment			
8.2.2.1.	Eye and face protection:		Safety o	glasses that stick to face (preventing splashing) (EN 166) or	
8.2.2.2.	Skin protection				
	Hand protection:		ard EN 37 Glove n Glove tl	es must be according to the EU Directive 2016/425/EEC and 4.  naterial: nitrile rubber  hickness: ≥0.50 mm  hrough time: >480 min	
	Other skin protection:	Wear antistatic		clothing made of natural fibers (such as cotton) with long 34), and shoes that cover the entire foot (EN 10335).	
8.2.2.3.	Respiratory protection:	filter f	or organi	ace mask (EN 136) or half mask (EN 140) equipped with a c vapors, type "A" (boiling point >65°C) acording to EN nen concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No information		available	
8.2.3.	Environmental exposure	controls			
	Substance/mixture relate measures to prevent exp		See Sec	tion 6	
	Structural measures to preexposure:	event	Use mo	dern equipment.	

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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 chen	nical properties	
		Value	Method
	Physical state:	liquid	No information available
	Color:	red	No information available
	Odor:	very mild vinegar odour	No information available
	Odor threshold:	No information available	No information available
	рН:	2.1 - 2.4	No information available
	Melting point / freezing point;	No information available	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapor pressure:	No information available	No information available
	Vapor density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	Soluble in water (20 °C)	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available

SECTIO	N 10 STABILITY AND REACTIVITY	
10.1.	Reactivity:	See subsections 10.3 through 10.5.

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10.2.	Chemical stability:	The product is 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.

SECTION 11 TOXIC	OLOGICAL INFORM	ATION					
11.1. Informatio	n on toxicological eff	ects					
Acute toxic	city:						
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposu	re time	Results	
Oral exposure:	No information available	rat	LD <sub>50</sub>	•	-	7.712 mg/kg (ethylene glycol)	
Dermal exposure:	No information available	rabbit	LD <sub>50</sub>		_	>3.500mg/kg (ethylene glycol)	
Inhalation exposure:	No information available	-	LC <sub>50</sub>		_	-	
Specific ta	get organ toxicity – s	ingle exposure (S	TOT SE):				
	Speci	fic effects	Targe	t organ		Note	
Oral exposure:	Oral exposure: No information available		No informati	No information available -			
Dermal exposure:	No information	No information available		No information available -			
Inhalation exposure	: No information	available	No informati	No information available -			
Respirator	y irritation:	No inform	mation available				
Irritation a	nd corrosion						
	Exposure time	Species	Evaluation	Method		Note	
Skin irritation:	-	rabbit	-	-	Slight ir glycol)	Slight irritation (ethylene glycol)	
Eye irritation:	24 h	rabbit	-	-	Slight ir glycol)	Slight irritation (ethylene glycol)	
Sensitizatio	on.						
Dermal exposure:	No information ava	elabie					

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Inhalation exposure:	No information	available				
Sympto	ms related to the pl	nysical, chemic	al and toxicolog	jical characterist	ics	
Oral exposure:  Swallowing may cause irritation of mucosa, tingling sensation in the mouth, bu sensation; higher levels of concentration may cause nausea, abdominal pain an In case of vomiting, aspiration causes coughing, difficult breathing. Higher leve concentration may cause suffocation.					n and vomiting.	
Dermal exposure: Slight irritation. After short exposure, resorption effects are not likely. Long-term may cause drying, cracking and tingling sensation of skin.						-term exposure
Inhalation exposure: Inhalation of large amounts of vapors in inadequately ventilated perimeter maccoughing, sneezing, headache and nausea.					may cause	
Eye exposure:  Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.					burning	
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	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-

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Specific  Subacute oral  Subacute dermal  Subacute inhalat  Subchronic oral  Subchronic inhal  Chronic oral  Chronic dermal  Chronic inhalatio	No inform No inform No inform No inform No inform No inform Ation No inform No inform	Specific effects ation available	No No No No	RE):  Target orgainformation avainformation	ilable ilable	Note - -
Subacute oral Subacute dermal Subacute inhalat Subchronic oral Subchronic derm Subchronic inhal Chronic oral Chronic dermal	No inform No inform No inform No inform No inform No inform ation No inform No inform	Specific effects ation available	No No No No	Target orgainformation avainformation avainformation avai	ilable ilable	-
Subacute dermal Subacute inhalat Subchronic oral Subchronic derm Subchronic inhal Chronic oral Chronic dermal	No inform	nation available nation available nation available nation available nation available	No No No No	information avai	ilable ·	_
Subacute inhalat Subchronic oral Subchronic derm Subchronic inhal Chronic oral Chronic dermal	ion No inform No inform No inform ation No inform No inform	ation available ation available ation available ation available	No No No	information avai		
Subchronic oral Subchronic derm Subchronic inhal Chronic oral Chronic dermal	No inform  No inform  No inform  No inform	ation available ation available ation available	No No		ilable ·	_
Subchronic derm Subchronic inhal Chronic oral Chronic dermal	nal No information No inform	ation available ation available	No	information avai		
Subchronic inhal Chronic oral Chronic dermal	ation No inform	ation available			ilable	_
Chronic oral Chronic dermal	No inform			information avai	ilable	-
Chronic dermal			No	information avai	ilable	_
	No inform	ation available	No	information avai	ilable	_
Chronic inhalatio		No information available		information avai	ilable ·	_
-	nalation No information available			information avai	ilable	_
Carcino Mutage Genoto Mutage	Mutagenicity <i>in-vitro</i> : Current  Genotoxicity: No inform  Mutagenicity <i>in-vivo</i> : Current		nt studies on test animals did not indicate carcinogenic effects.  Int in vitro tests did not indicate mutagenic effects.  Int in vivo tests did not indicate mutagenic effects.  Int in vivo tests did not indicate mutagenic effects.  Int in vivo tests did not indicate mutagenic effects.  Int in vivo tests did not indicate mutagenic effects.			
Reprodu			city on reprodu	uctive organs w	as determine	ed in reproductive
Summa	ry of evaluation of	the CMR prope	erties: -			
11.2. Practica	l experiences:					
Remark	s relevant for classi	fication:	No information	n available		
Other re	emarks:		No information	No information available		
11.3. General	notes:					

SECTION 12 ECOLOGICAL INFORMATION	N:
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12.1. Toxicity

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Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	Fish	No information available	72.860 mg/l (ethylene glycol)	-
Crustacea:	EC <sub>50</sub>	48 hours	water flea	No information available	>100 mg/l (ethylene glycol)	-
Algae/aquatic plants	IC <sub>50</sub>	8 days	algae	No information available	6.500-13.000 mg/l (ethylene glycol)	-
Microorganisms	LC <sub>50</sub>	72 hours	-	-	_	-
Chronic toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	_
Other organisms						

#### 12.2. Persistence and degradability

Abiotic degradation

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

tion			
Time (days)	Method	Evaluation	Note
o information vailable	No information available	No information available	No information available
(	Time (days)	Time (days) Method o information No information	Time (days) Method Evaluation o information No information No information

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		SNOST HEM	LEUKO		Trading name:
ion: 1	Version:	13 December 2021	Revision date:	LKH-OT-X**	Product code:
į	Vers	13 December 2021	Revision date:	LKH-OT-X**	Product code:

12.3.	Bioacc	umulati	ve potentia	al								
	Partitio	on coeff	icient: n-o	ctanol/wa	ter (log K	ow):						
Valu	ıe	Concer	ntration	рН	°C	М	ethod		Evalu	ation		Note
-		lo inf vailable	ormation	-	-	No info	ormatior lle		No inform available	nation	-	
	Biocor	ncentrati	ion factor (	BCF)								
\	/alue		Speci	es		Method	d		Evaluati	on		Note
No info	ormation le		o in ailable	formation	No inf	ormation	on		nformati lable	on	No inforr available	mation
	Chroni	ic ecoto	vicity									
	Value		Do	se Ex	Exposure time		ecies	M	ethod	Eva	luation	Note
Chroni	c toxicity	on fish	LC <sub>50</sub>	1			mation able		rmation lable	No information available		-
	c toxicity cea ( <i>Dapl</i>		EC <sub>50</sub>	1	No information available		mation able		rmation lable	No information available		-
12.4.	Mobili	ty in soi	1									
12.4.	1	ty in soi	dicted distr	ibution in	environr	mental (	compart	mente	·			
			n available		CITATION		compart	ciit				
		e tensio										
	Val		°C		Concentr	ation		Met	thod		N	ote
	No No information information		No informati available	n N	No information available		No information available		-	-		
	Adsorp	ption / c	desorption									
Transp	ort		coefficient 's constan	<u> </u>	log Kow	E	vaporati	on rat	:e	Method		Note

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Trading	name:			LEUKO	SNOST H	IEM		
Product	code:	LKH-OT-X**	Revisio	n date:	13 Dec	ember 2021	Version:	1
Soil-wate	er No availa	information able	No information available	No info	rmation e	No information	<b>1</b>	
Water-ai	r No availa	information able	No information available	No info availabl	rmation e	No information available	-	
Soil-air	No availa	information able	No information available	No info availabl	rmation e	No information available	1	
12.5.	Results of	PBT and vPvB asses	ssment					
	No inform	ation available						
12.6.	Other adve	erse effects						
		ation available						
1								
SECTION	13 DISPO	OSAL CONSIDERA	TIONS					
13.1.	Waste tr	eatment methods						
	1							
13.1.1.		Packaging disposa						
	Submit f Protection	or disposal to the l	egal person autho	rized by 1	the Minist	ry of Environment	tal and Natu	re
13.1.2.	Waste co	odes/waste designa	ations according to	o Law:				
	No infor	mation available						
13.1.3.	Waste tr	eatment – relevant	information:					
		mation available						
	:							
13.1.4.	Sewage	disposal – relevant	information:					
	Waste m	nust not be dispose	d of into the sewa	ge syster	n.			
13.1.5.		sposal recommend						
	authorize the pack	lispose of the prod ed by the ministry it aging to the collect may occur.	n charge. Do not o	dispose o	f the pack	aging into the se	wage system	ı. Submi
13.1.6.		: Community provis	sions:					

SECTION 14 TRANSPORT INFORMATION



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Trading name:		LEUKOG	NOST HEM	-	
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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 (R	ID)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
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 (II	MDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-

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Further information: The product is not subject to classification.	
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15.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;  The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);  EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;  EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;  EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;  Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	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	nt
	None	

SECTIO	SECTION 16 Other information					
16.1.	Indication of changes:	-				
		PBT	Stable, bioaccumulative and toxic			
		vPvB	Strongly stable and strongly bioaccumulative.			
16.2.	Abbreviations and acronyms:	LD <sub>50</sub>	Lethal dose, 50%			
		LC <sub>50</sub>	Lethal concentration, 50%			
		STOT SE	Specific target organ toxicity - single exposure			

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Trading name:		LEUKOG	NOST HEM		
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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)		
	H: 302	Harmful if swallowed.		
16.6.	Training advice:	-		
		** "X" in the product code marks different volumes (different packagings of the product)		
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX:

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 

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