

### SUDAN BLACK B ECO

The kit contains:

LeukoGnost HEM
Sudan Black B fixative
Sudan Black B reagent, phenol free



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Trading name:	LEUKOGNOST HEM						
Product code:	LKH-OT-X**	Revision date:	03 April 2023	Version:	2		

SECTI	ON 1 IDENTIFICATION	OF THE SUBS	TANCE/MI)	KTURE AND OF THE COMPANY/UNDERTAKING		
1.1.	Product identifier					
	Trading name:	LEUKOGNO	ST HEM			
	Chemical name:	-				
	Catalogue number:	LKH-OT-X**				
1.2.	1.2. Relevant identified uses of the substance or mixture and uses advised against					
	Uses:		Hematoxyl	lin reagent for use with LeukoGnost kits.		
	Uses advised against:		Only the ic	dentified uses are advised.		
	Reason why uses advis	sed against:	ct is intended for use only as an <i>in vitro</i> diagnostic medical pistered 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	Details of the supplier of the safety data sheet				
	Supplier:	Bi	ioGnost Ltd.			
	Address:	М	1edjugorska 59, Zagreb			
	Telephone number:	+.	385 1 2409997			
	Fax no.:	+.	+385 1 2404039			
	e-mail of competent p	erson: <u>m</u>	msds@biognost.hr			
	National contact:	-				
1.4.	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue Dire	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	SECTION 2 HAZARDS INFORMATION						
2.1.	Classification of the substa	Classification of the substance or mixture					
2.1.1.	Classification (REGULATIO	N (EC) No. 1272/2008	(CLP)				
	Hazard class and category code: Hazard statements*:						
	Acute Tox. 4 H302						
2.1.2.	Additional information						
	-						
*For fu	ıll text of Hazard- and EU Haz	zard-statements: see S	ection 16				
2.2.	Label elements						
	Product identification:	LEUKOGNOST HE	M				
	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.				
	Supplemetal hazard information (EU):	-				
2.3.	Other hazards					
	<b>Endocrine Disrupting Prope</b>	erties:				
	No known endocrine disrupt	ing properties				
	<b>Results of PBT and vPvB assessment</b> : According to the results of its assessment, this substance is not a PBT or a vPvB.					

SECTION 3 CC	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 - 45 %	ethylene glycol	Acute Tox. 4, H302					

SECTION	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.				



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	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 a	aider:	Treat symptomatically.		
4.2.	Most important symptoms	and eff	ects, both acute and delayed		
	Following inhalation:		lation of large amounts of vapors in inadequately ventilated perimeter cause coughing, sneezing, headache and nausea.		
	Following skin contact:	_	nt irritation. After short exposure, resorption effects are not likely. Long- n exposure may cause drying, cracking and tingling sensation of skin.		
	Following eye contact:		ct eye contact may cause slight to moderate irritation, lacrimation and ning sensation. If the symptoms persist, immediately call a physician.		
	Following ingestion:	Swallowing may cause irritation of mucosa, tingling sensation in the burning sensation; higher levels of concentration may cause nause abdominal pain and vomiting. In case of vomiting, aspiration cause coughing, difficult breathing. Higher levels of concentration may casuffocation.			
4.3.	Indication of any immediat	e medio	cal attention and special treatment needed		
	-				

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

SECTIO	SECTION 6 ACCIDENTAL RELEASE MEASURES				
6.1.	Personal precautions, protective 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 cor	rial 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.				
İ		about personal protective equipment.			
	See Section 13 for information about containment.				

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 incompa	ibilities					



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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 EXPOSURE CONTROLS/PERSONAL PROTECTION								
8.1. Control para	ameters							
Substance		CAS No		Occupational exposure limit values/short term values		Biological limit values		
				ppm	mg/m³			
Ethylene glycol		107-21	-1	20/40	52/104	No infor	mation available	
Substance name:								
EC No: -		CAS No:	-					
DNEL	DNEL							
				Industrial				
Route of	A	cute		Acute	Chronic		Chronic	
exposure:	effe	ect local	effe	ect systemic	effect lo	cal	effect systemic	
Oral	-		-		-		-	
Inhalation	-		-		35 mg/ kg (ethylene gly	col)		
Dermal 106 mg/kg (ethylene glycol)								
Critical physical parameters: solubility, flammability, corrosivity:								
				Consumer				



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Product	Loue.	LKH-U1-X***		Revisio	m date.	03 April 2023	version. 2	
		1						
Route of		Acute		Acut		Chronic	Chronic	
exposure:		effect local	effect systemic		temic	effect local	effect systemic	
Oral		-	-			-	-	
Inhalation	ı	-	-			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 sediment	s			37 mg/kg	g (ethylene glycol)		
Marine wa	ater				1 mg/l (e	thylene glycol)		
Marine se	diments				3.7 mg/k	g (ethylene glycol)		
Food chai	n				No information available			
Microorga	anisms in se	ewage treatment			199.5 mg/l (ethylene glycol)			
Soil (agric	ultural)				1.53 mg/kg (ethylene glycol)			
Air				No information available				
8.2.	Exposure	e controls						
8.2.1.	Enginee	ring measures						
	measure	ce/mixture related s to prevent expo dentified uses:			•	n well ventilated rooms ot eat, drink or smoke i	s. Use personal protective n the workspace.	
	Structura	al measures to pre e:	event	No information available				
	_	ational measures t exposure:	:O	Organization of work in order to reduce other worker's influence during work process.				
	Technica exposure	al measures to pre e:	vent		e proper workspace ventilation in order to keep entration levels in air below permitted levels.			
8.2.2.	Personal	protection equip	ment					
8.2.2.1.	Eye and	face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) o visor.			ing splashing) (EN 166) or		
8.2.2.2.	Skin pro	tection						
	Uand or	Protect		ctive gloves must be according to standard EN 374.  Glove material: nitrile rubber				
	папи рг	otection:		Glove thickness: ≥0.11 mm Break through time: >480 min				
	Dica				car unough unic. 7400 mm			



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	Other skin protection:		Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with 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 relate measures to prevent exp		See Section 6			
	Structural measures to pexposure:	revent	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 che	mical 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
	Lower 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.				

SECTION 11 TOXIC	OLOGICAL INFORMA	ATION			
11.1. Information	n on hazard classes as	defined in Reg	gulation (EC) No 1272	2/2008	
Acute toxic	rity:				
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results
Oral exposure:	anhydrous (ECHA)	rabbit	LD <sub>50</sub>	-	7.712 mg/kg (ethylene glycol)
Dermal exposure:	anhydrous (ECHA)	rat	LD <sub>50</sub>	-	>3.500mg/kg (ethylene glycol)
Inhalation exposure:	No information available	-	LC <sub>50</sub>	_	-
**					
Specific tar	get organ toxicity – si	ngle exposure	(STOT SE):		
	Specif	ic effects	Target	organ	Note
Oral exposure:	No information	available	No informatio	n available	-
Dermal exposure:	No information	available	No informatio	n available	-
Inhalation exposure	: No information	available	No informatio	n available	-
Respiratory	r irritation:	No info	ormation available		
Irritation a	nd corrosion				
	Exposure time	Species	s Evaluation	Method	Note



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	***	1			***			
Skin irritation:	-	rabb	it -	-	Slight irritation glycol)	on (ethylene		
Eye irritation:	24 h	rabb	it -	-	Slight irritation glycol)	on (ethylene		
Sensitiza	ation							
Dermal exposure	: No information	n available						
Inhalation exposure:	No information	n available						
Sympto	ms related to the p	hysical, chemic	al and toxicolog	gical characteristi	ics			
Oral exposure:	No informat	ion available						
Dermal exposure	: No informat	ion available						
Inhalation exposi	ure: No informat	ion available						
Eye exposure:	Causes serio	ous eye damage	9					
Repeate	d dose toxicity (sul	pacute, 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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Chronic dermal	No availa	nformation ble	No information available	No information	on	No information available		formation ble	-	
Chronic inhalation		o information railable No information available				information	No in	formation ble	-	
Specific	target	organ tovicit	y – repeated e	vnosura (ST	-OT R	E)·				
Specific	target		pecific effects	xposure (5)	011	Target orga	ın	***************************************	Note	
Subacute oral			tion available		No i	nformation avail				
Subacute derma			ntion available			nformation avail		-		
Subacute inhalat	ion	No informa	ntion available		No i	nformation avail	lable	-		
Subchronic oral		No informa	ition available		No i	nformation avail	able	-		
Subchronic derm	nal	No informa	ntion available		No i	nformation avail	able	-		
Subchronic inhal	ation	No informa	ntion available		No i	o information available		-		
Chronic oral		No informa	ntion available	on available No ii		No information available		-	-	
Chronic dermal		No informa	ntion available	ion available No i		No information available -		-	-	
Chronic inhalation	n	No informa	tion available	on available No information available		able	-			
			y, mutagenicity							
Carcino						nimals did not in			effects.	
Mutage	·····	n-vitro:				d not indicate r	nutager	nic effects.		
Genoto: Mutage	·····			nation avail			t.a.a.a.	is offerts		
		genicity:		Current <i>in vivo</i> tests did not indicate mutagenic effects.  No information available						
Reprodu						ctive organs w	as dete	ermined in	reproductive	
Summa	ry of ev	aluation of t	he CMR prope	rties: -						
11.2. Informa	tion on	other hazard	ds:							
11.2.1. Endocri	ne disru	upting prope	rties:							
	nown ies that	endocrine affect huma	disrupting n health.							
11.2.2. Other in	format	ion:								
-										



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12.1. Toxici	-									
Acute (short-te toxicity	erm)	Dose	Exposu time		Species	М	ethod	Eva	luation	Note
Fish		LC <sub>50</sub>	96 hour	`S	Fish		No rmation ailable		60 mg/l ne glycol)	-
Crustacea:		EC <sub>50</sub>	48 hour	<b>S</b>	water flea		No rmation ailable		00 mg/l ne glycol)	-
Algae/aquatic	plants	IC <sub>50</sub>	8 days		algae		No rmation ailable		3.000 mg/l ne glycol)	-
Microorganism	าร	LC <sub>50</sub>	72 hour	´S	-	-			-	-
Chronic toxicit	у	Dose	Exposu time		Species	М	ethod	Eva	luation	Note
Fish		LC <sub>50</sub>	96 hour	<b>'</b> S	No information available		rmation lable	No info availabl	rmation e	-
Crustacea:		EC <sub>50</sub>	48 hour	<b>S</b>	No information available		rmation lable	No info availabl	rmation e	-
Algae/aquatic	plants	IC <sub>50</sub>	72 hour	s	No information available	No information available		No info availabl	rmation e	_
Other organisr	ns	-	-		-	-		-		-
		1	1						·	
12.2. Persis	tence a	nd degradal	oility							
Abiot	ic degra	dation								,
	Deg	radation hal	f-lives		Method			Evaluat	ion	Note
Marine water	No inf	ormation av	ailable	No	information availa	able	No info	mation a	vailable	-
Fresh water	No inf	ormation av	ailable	No	information availa	able	No infor	mation a	vailable	-
Air	No inf	ormation av	ailable	No	information availa	able	No infor	mation a	vailable	-
Soil	No inf	ormation av	ailable	No	information availa	able	No infor	mation a	vailable	-
Biode	gradati	on								
% Degradatio	_	Time (day	s)		Method	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Evaluat	ion	N	ote
No information	n No		mation	No in availa	nformation		o informa ailable	tion	No informa	tion



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12.3.	Bioaccum	nulative p	ootential							
	Partition	coefficie	nt: n-octa	nol/wate	er (log Ko	ow):				
Valu	Value Concentration pH		°C	Method	Evalu	ation		Note		
-	No avai	inforn lable	nation -		_	No informatio available	n No inform available	nation	-	
	Rioconco	ntration	factor (BC	·F)						
	Value	intration	Species	.1 )	N	Method	Evaluati	on	<u> </u>	Note
		No	•	mation		ormation	No informati		No information	
No info	available available				available		available		available	
		availa	ble		avaiiab	ile				
		availa	ble		availab					
		availa	ble		avaliab	ile .				
	ble				avaliab	ile				
	Chronic e			Fyr						
	ble				oosure iime	Species	Method	Eva	luation	Note
availab	Chronic e	cotoxici	ty Dose	No	posure ime	Species No	Method No		luation	Note
availab	Chronic e	cotoxici	ty	No infor	posure cime	Species No information	Method No information		luation	Note -
Chronic	Chronic e  Value  c toxicity or	ecotoxici n fish	ty Dose	No	posure cime	Species No	Method No	No info	luation ormation ble	
Chronic	Chronic e Value c toxicity or	n fish	ty Dose	No infor avail No infor	cosure time rmation able	Species  No information available  No information	Method  No information available  No information	No info	luation ormation ole	
Chronic	Chronic e  Value  c toxicity or	n fish	Dose	No infor avail No	cosure time rmation able	Species  No information available No	Method  No information available No	No info	luation ormation ole	-
Chronic Chronic Chronic	Chronic e  Value  c toxicity or  c toxicity or  cea (Daphni	n fish	Dose	No infor avail No infor	cosure time rmation able	Species  No information available  No information	Method  No information available  No information	No info	luation ormation ole	-
Chronic	Chronic e  Value  c toxicity or  c toxicity or  cea (Daphnic	n fish n a)	Dose LC <sub>50</sub> EC <sub>50</sub>	No infor avail No infor avail	cosure cime rmation able rmation able	Species  No information available  No information available	Method  No information available  No information available	No info	luation ormation ole	-
Chronic	Chronic e  Value  c toxicity or  c toxicity or  cea (Daphnic	n fish n soil	ty  Dose  LC <sub>50</sub> EC <sub>50</sub>	No infor avail No infor avail	cosure cime rmation able rmation able	Species  No information available  No information	Method  No information available  No information available	No info	luation ormation ole	-
Chronic	Chronic e  Value  c toxicity or  c toxicity or  cea (Daphnic  Mobility  Known o	n fish n soil r predict	ty  Dose  LC <sub>50</sub> EC <sub>50</sub>	No infor avail No infor avail	cosure cime rmation able rmation able	Species  No information available  No information available	Method  No information available  No information available	No info	luation ormation ole	-
Chronic Chronic Chronic	Chronic of Value  c toxicity of the Company of the	n fish n soil r predict nation a	ty  Dose  LC <sub>50</sub> EC <sub>50</sub>	No infor avail No infor avail	cosure cime rmation able rmation able	Species  No information available  No information available	Method  No information available  No information available	No info	luation ormation ole	-
availab Chronio	Chronic e Value c toxicity or cea (Daphnic Mobility Known o No inforr Surface t	n fish n soil r predict nation are	ty  Dose  LC <sub>50</sub> EC <sub>50</sub> ed distribution vailable	No infor avail  No infor avail  ution in a	cosure cime cmation able cmation able	Species  No information available  No information available  mental comparation	Method  No information available  No information available  tments:  Method  formation	No info	luation  ormation ole  ormation ole	-



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	Adsorption / desorption				
Transpo	A/D coefficient Henry's constan	log Kow	log Kow Evaporation rate		Note
Soil-wat	ter No informa	tion No information available	No information available	No information available	-
Water-a	ir No informa available	tion No information available	No information available	No information available	-
Soil-air No information available		tion No information available	No information available	No information available	-
12.5.	Results of PBT and vPvB	accecement			
12.3.	Based on available data,		contain any PRT or v	/PvB substances	
	basea on available data,	and product does not	contain any i bi of v	vo sabstances.	
12.6.	Endocrine disrupting pro	perties			
	No known endocrine dis		t affect the environn	nent.	
		1 31 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
12.7.	Other adverse effects				
12.7.	Other adverse effects  No adverse effects are e	xpected.			
12.7.		xpected.			
		·			
	No adverse effects are e	ERATIONS			
SECTIO	No adverse effects are e	ERATIONS			
SECTIO	No adverse effects are e	<b>ERATIONS</b> ods			
<b>SECTION</b> 13.1.	No adverse effects are e	erations ods posal:	orized by the Ministr	y of Environmental	and Nature
<b>SECTION</b> 13.1.	No adverse effects are e  N 13 DISPOSAL CONSID  Waste treatment meth  Product/Packaging dis  Submit for disposal to	erations  ods  posal: the legal person author	•	y of Environmental	and Nature
<b>SECTIO</b> I 13.1.	No adverse effects are e  N 13 DISPOSAL CONSID  Waste treatment meth  Product/Packaging dis  Submit for disposal to Protection.	erations  ods  posal: the legal person authorisignations according to	•	y of Environmental	and Nature
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<b>SECTIO</b> I 13.1. 13.1.1.	No adverse effects are e  N 13 DISPOSAL CONSID  Waste treatment meth  Product/Packaging dis  Submit for disposal to Protection.  Waste codes/waste de  No information availab	erations ods  posal: the legal person authorising to the legal	•	y of Environmental	and Nature
<b>SECTIO</b> I 13.1. 13.1.1.	No adverse effects are e  N 13 DISPOSAL CONSID  Waste treatment meth  Product/Packaging dis  Submit for disposal to Protection.  Waste codes/waste de No information availab  Waste treatment – rele	erations ods  posal: the legal person authorising to the legal	•	y of Environmental	and Nature
<b>SECTIO</b> I 13.1. 13.1.1.	No adverse effects are e  N 13 DISPOSAL CONSID  Waste treatment meth  Product/Packaging dis  Submit for disposal to Protection.  Waste codes/waste de No information availab  Waste treatment – rele	erations ods  posal: the legal person authorisignations according to the legal person authorise signations according to the legal person authorise signation according to the legal person authorise signature signa	•	y of Environmental	and Nature



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13.1.5.	Other disposal recomme	ndations:
	authorized by the ministr	oduct's remains into the sewage system. Submit the remains to the collectors ry in charge. Do not dispose of the packaging into the sewage system. Submit lectors authorized by the ministry in charge. Do not dispose of in places where
13.1.6.	Relevant Community pro	ovisions:
	-	
SECTION	N 14 TRANSPORT INFORM	MATION
	Transporting/shipment by	road (ADR)
UN numl	ber:	Not subject to transport regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing (	group:	-
Environn	nentally hazardous:	-
Special p	recautions for user:	-
	Transporting/shipment by	rail (RID)
UN numl	ber:	Not subject to transport regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing (	group:	-
Environm	nentally hazardous:	-
Special p	precautions for user:	
	Inland waterway transport	(ADN)
UN numl	ber:	Not subject to transport regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing (	group:	-
Environm	nentally hazardous:	-
Special p	recautions for user:	-
	Transporting/shipment by	sea (IMDG)
UN numl	ber:	Not subject to transport regulations.
UN prop	er shipping name:	-
Transpor	t hazard class(es):	-
Packing (	group:	-
Environm	nentally hazardous:	-



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

15.1.	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 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



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15.2.	Chemical safety assessment
	None

SECTIO	TION 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)			
Classifi	cation	Classification procedure			
_		-			
16.5.	Relevant H statements (numb	er and full text)			
	H: 302	Harmful if swallowed.			
16.6.	Training advice:	-			
16.7.	Further information:	** "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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1.1	Product identifier	Product identifier				
	Trading name:	SUDAN BLA	ACK B FIXA	ATIVE		
	Chemical name:	-				
	Catalogue number:	SBBF-X**	SBBF-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	e identified uses are advised.		
	Reason why uses advi	sed against:	medical	duct is intended for use only as an <i>in vitro</i> diagnostic device, registered at the Agency for Medicinal Products and Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	of the safety	data shee	t		
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2	+385 1 2409997		
	Telefax.:		+385 1 2	2404039		
	e-mail of competent p	person:	msds@b	piognost.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	CTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No 1	272/2008 (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				



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2.2	Label elements	
	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:	<ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke.</li> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308 + P313 IF exposed or concerned: Get medical advice/attention.</li> </ul>
	Supplemetal hazard information (EU):	EUH066 Repeated exposure may cause skin dryness or cracking.
2.3	Other hazards	



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-

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	-	≥ 70 % - < 90 %	acetone	Flam. Liq. 2; H225 Eye Irr. 2; H319 STOT SE 3; H336 EUH066		
50-00-0/ 200-001-8/ 605-001-00-5	-	< 3 %	glyoxal	Skin Irr. 2; H315 Skin. Sens. 1; H317 Eye Irr. 2; H319 Acute Tox. 4; H332 Muta. 2; H341		

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 eff	ects, 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.



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	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			
	-			

SECTI	SECTION 5. Firefighting measures						
5.1	Extinguishing media	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 substance or mixture						
	Hazardous combustion products:	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	Additional information					
	Do not contaminate the environm	ent with extinguishing media.					

SECTIO	ECTION 6. Accidental release measures							
6.1	Personal precautions, protecti	Personal precautions, protective equipment and emergency procedures						
6.1.1.	For non-emergency personne							
	Protective equipment:	Use personal protective equipment (see Section 8).						
	Accident prevention methods: Evacuate members of all non-essential personnel and those without protective equipment. Avoid breathing vapors and avoid 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 ( (see Section 8).	case of inadequate ventilation use adequate airways protective equipment						
6.2	Environmental precautions:							
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.							
6.3	Methods and material for con	Methods and material for containment and cleaning up						
6.3.1.	Bunding, covering of drains; capping procedures:	Bunding, covering of drains;						



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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 section	ons			
	See Section 7 for information on safe handling.  See Section 8 for information on personal protection equipment.  See Section 13 for disposal information.				

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	on:	Secure proper ventilation.		
	Mascurec 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 incon	npatibilities			
	Technical measures and storage conditions:	well ventil	ightly closed and upright set containers in a ilated storage rooms at temperatures ranging o 25°C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	urer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away	y from food and drink. Keep the containers		
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no d that directly leads into sewage system. Secure prop ventilation.			
	Further information on storage conditions:		ace the unused material in the storage room of use empty containers for storing other. Do not store with incompatible materials on 10).		



Microorganisms in sewage treatment

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

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7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

maasina.	sector spe	ciric sorat					
SECTION 8. Expos	ure contr	ols/perso	nal prote	ection			
8.1 Control p	arameters						
Substance	e	CA	S No		•	exposure limit term values	Biological limit values
				p	ppm	mg/m³	
Acetone		6	7-64-1	Ē	500	1210	No information available
Substance name:	_						
EC No:	-	CAS No	:				
DNEL	1						
				Ind	ustrial		
Route of exposure:	Acute Acute effect local effect systemi				Chronic effect local	Chronic effect systemic	
Oral	-			-	-		-
Inhalation	-		-		-		1210 mg/m³ (acetone)
Dermal	-		-		-		186 mg/kg (acetone)
Critical physical pa	rameters: s	solubility,	flammabi	lity, corr	osivity:	-	•
				Con	sumer		
Route of exposure:	Acı effect			ute systemic		Chronic effect local	Chronic effect systemic
Oral	-		-		-		-
Inhalation	-		-		200 mg/m3 (acetone)		e) -
Dermal	-		-		62 mg/kg (acetone) -		) -
PNEC							
Environmental pro	tection tar	get			PNEC		
Fresh water					10.6 mg	/l (acetone)	
Freshwater sedime	ents				30.4 mg	/kg (acetone)	
Marine water					1.06 mg/l (acetone)		
Marine sediments					3.04 mg/kg (acetone)		
Food chain					No information available		

100 mg/l (acetone)



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Soil (agric	cultural)		29.5 mg/kg (acetone)			
Air			No information available			
8.2	Exposure controls					
8.2.1.	Appropriate engineering control	ols				
	Substance/mixture related mea prevent exposure during identi		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 pre exposure:	event	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.			
8.2.2.	Personal protection equipment	t				
8.2.2.1.	Eye and face protection:	levels o	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:	Regul 374.F	orotective gloves have to satisfy the specification of lation (EU) 2016/425 and the related standard EN ull contact:  Glove material: butyl rubberGlove thickness: ≥  0.50 mm  Time until perforation: > 480 plash contact:  Glove material: nitrile rubber  Glove thickness: 0.4 mm  Break through time: 35 min			
	Other skin protection:	suitabl cover t of imp	e every day work use antistatic clothing (EN 13688) and 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:	ofinad	concentration level exceeds the GVI values (or because equate ventilation), use a filter for organic vapors, type iling point >65°C) according to EN 14387.			



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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				

Information on basic physical and o	hemical properties				
	Value	Method			
Physical state:	liquid	Visual inspection			
Color:	light yellowish	Visual inspection			
Odour/odour threshold:	acetone 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			
Lower 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			
Physical state:	No information available	No information available			



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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.					

11.1 Information	n on toxicologic	cal effects						
Acute toxic	ity:							
Route of exposure:	Method	Species	Do	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>		Exposure time		Results
Oral:	-	rat		LD <sub>50</sub>		-		>2,000 mg/kg (acetone)
Dermal:	-	rat		LD <sub>50</sub>		-		>2,000 mg/kg (acetone)
Inhalation:	-	rat		LD <sub>50</sub>		4 h		20 mg/l (acetone)
Specific tar	get organ toxic	city – single exp	oosure (S	TOT SE):				
	Spe	ecific effects		Target organ		Note		
Oral:	No information	No information available		No information available		-		
Dermal:	No information available			No information available		-		
Inhalation:	No informatio	n available		No information available		may cause drowsiness or dizziness		
Aspiration I	hazard:	I	No inforn	nation availab	ole.			
Irritation ar	nd corrosion							
	Exposi	ure time	Speci	es Eval	luation	Method		Note
Skin corrosion/irritation:	-	-	-	-		-	_	
Serious eye damage/irritation	<b>-</b>	-	_	-		-	cause	es serious eye tion



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Sensitiza	ation						
Skin sensitization		_					
Respiratory sensi		_					
Respiratory serisi	tization.						
Sympton	ms related to	n tha nh	vsical chemic	al and tovicolog	ical characteristic	~c	
Oral exposure:		•	on available.	ar arid toxicolog	icai characteristic	.3	
Dermal exposure			on available.				
			on available.				
Inhalation exposu							
Eye exposure:	INO II	iiormati	on available.				
Reneate	d dose toxic	ity (sub	acute, subchro	nic chronic)			
	Dose		Exposure time	Species	Method	Evaluation	Note
Subacute oral	No inforr	mation	No information available	No information available	No information available	No information available	-
Subacute dermal	No inforr available	mation	No information available	No information available	No information available	No information available	-
Subacute inhalation	No inforr	mation	No information available	No information available	No information available	No information available	-
Subchronic oral	No inforr available	mation	No information available	No information available	No information available	No information available	-
Subchronic dermal	No inforr available	nation	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No inforr available	nation	No information available	No information available	No information available	No information available	-
Chronic oral	No inforr available	nation	No information available	No information available	No information available	No information available	-
Chronic dermal	No inforr	nation	No information available	No information available	No information available	No information available	-



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Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	on	-
Spe	ecific target	organ toxicit	v – repeated e	xposure (STOT	RE):			
-	<u> </u>	9	Specific effec	<u> </u>	Target o	rgan		Note
Subacute or	al	No informa	tion available		No information		_	
Subacute de	ermal	No informa	tion available		No information	n available	-	
Subacute inl	nalation	No informa	tion available		No information	n available	-	
Subchronic	oral	No informa	tion available		No information	n available	-	
Subchronic	dermal	No informa	tion available		No information	n available	-	
Subchronic i	inhalation	No informa	tion available		No information	n available	-	
Chronic oral		No informa	tion available		No information	n available	-	
Chronic derr	mal	No informa	tion available		No information	n available	-	
Chronic inha	alation	No informa	tion available		No information	n available	-	
Mu Ger Mu Ger	CMR effects (carcinogenicity; mutagenicity; reconstruction Carcinogenicity:  Mutagenicity in vitro:  Genotoxicity:  Mutagenicity in vivo:  Germ cell mutagenicity:  Reproductive toxicity:			met.  Based on a met.	available data, th available data, th available data, th available data, th available data, th	e classificati e classificati e classificati e classificati	on crit on crit on crit	eria are not eria are not eria are not eria are not
	nmary of perties:	evaluation	of the CM	1R Based on met.	available data, th	e classificati	on crit	eria are not
11.2. Info	ormation or	other hazard	ds:					
11.2.1. Enc	docrine disru	upting prope	rties:					
	known end t affect hum		pting properti	es				
11.2.2. Oth	ner informat	ion:						



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-

SECTION 12. Ecologic	cal informat	tion				
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>	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
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

### 12.2 Persistence and degradability

Abiotic degradation

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



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	Biod	egrada	ation									
% D	egrada	tion		Time (c	lays)	N	Method		Evaluation	n		Note
No info	ormatic ole	on	No availa		ormation	No information			information ailable	1	_	
12.3	Bioa	ccumu	lative p	otentia								
	Octa	nol-wa	ater par	tition co	pefficient (	log Kow	v)		1			
Valı	ue	Con	centrat	ion	рН	°C	Method		Evalua	ation		Note
-		No in	formation ble	on	-	_	No information available	n	No inform available	nation	-	
	Bioco Value ormatic		ration f	factor (E Specie			Method formation	N	Evaluation Io information Io information Io		No info	Note ormation
availab	ole		availab	ole		availak	ole	av	vailable		availab	le
	Chro	nic ec	otoxicit	у								
	Val	ue		Dos	Δ : .	osure ime	Species		Method	Evalı	uation	Note
Chroni	ic toxici	ity on 1	fish	LC <sub>50</sub>	No infor avail	mation able	No information available	in	lo nformation vailable	No inform availab		-
	ic toxici cea ( <i>Da</i>	•	ı	EC <sub>50</sub>	No infor avail	mation able	No information available		lo nformation vailable	No inform availab		-
				•	•			•		•		•
12.4	Mob	ility in	soil									
	Knov	wn or p	oredicte	ed distri	bution in e	environn	nental compar	tme	ents:			
	No ii	nforma	ation av	ailable								
	Curf	ace ten	sion:									



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	Value	°C	Concentratio	n Meth	od	Note	
	No information available	No information available	No information available	No informatio	n _		
Transpo	ort	coefficient ry's constant	log Kow	Evaporation rate	Method	Note	
Soil-wa	ter No availabl	information e	No information available	No information available	No information available	-	
Water-a	air No availabl	information e	No information available	No information available	No information available	-	
Soil-air	No availabl	information e	No information available	No information available	No information available	-	
12.6. 12.7.		·		affect the environr	ment.		
	No informati	on available					
SECTIO	N 13. Dispos	al consideration	s				
13.1	Waste trea	tment methods					
13.1.1.		•		rized by the Minist	ry of Environmenta	ıl and Nature	
13.1.2.		es/waste designa ation available	ations according to	Law:			



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	No information available						
13.1.4.	Sewage disposal – releva	nt information:					
13.1.1.	Waste must not be disposed of into the sewage system.						
	waste mast not be dispe	sed of file the sewage system.					
13.1.5.	Other disposal recomme	ndations:					
	authorized by the ministr	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 pro	visions:					
	-						
SECTIO	N 14 TRANSPORT INFORM	MATION					
	Transporting/shipment by	road (ADR)					
UN num	nber:	1090					
UN prop	per shipping name:	Acetone					
Transpo	rt hazard class(es):	3					
Packing	group:	II					
Environr	mentally hazardous:	-					
Special <sub>I</sub>	precautions for user:	-					
	Transporting/shipment by	rail (RID)					
UN num	nber:	1090					
UN prop	per shipping name:	Acetone					
Transpo	rt hazard class(es):	3					
Packing	group:	II					
Environr	mentally hazardous:	-					
Special <sub>I</sub>	precautions for user:	-					
	Inland waterway transport	(ADN)					
UN num	nber:	1090					
UN prop	per shipping name:	Acetone					
_	rt hazard class(es):	3					
Transpo							
Packing	group:	II II					
Packing	group: mentally hazardous:	-					



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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:	-
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:	-
Further information: -	

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



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	Other EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 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 199 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 assessmen	t
	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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16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)					
Classific	cation	1	Classification procedure			
_			-			
16.5.	Rele	evant H statements (numl	oer and full text)			
	H:	225	Highly flammable liquid and vapor.			
		315	Causes skin irritation.			
		317	May cause an allergic skin reaction.			
	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.	Training advice:		-			
16.7.	Further information:		-			

ANNEX: Exposure scenario resulting to chemical safety assessment



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Trading name:	SU	DAN BLACK B REAC	GENT, PHENOL FREE		
Product code:	SBBP-OT-X**	Revision date:	05 Dec 2022	Version:	2

SECTI	ION 1: Identification of	the substance	e/mixture	e and of the company/undertaking			
1.1	Product identifier						
	Trading name:	SUDAN BLA	ACK B REA	CK B REAGENT, PHENOL FREE			
	Chemical name:	-	-				
	Catalogue number:	SBBP-OT-X	**				
1.2	Relevant identified us	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 supplie	Details of the supplier of the safety data sheet					
	Supplier: Address:		BioGnost Ltd.				
			Medjugorska 59, Zagreb				
	Telephone number:	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039				
	e-mail of competent	oerson:	msds@biognost.hr				
	National contact:	-					
1.4	Emergency telephone number						
	National Protection and Rescue Dire		ectorate:	112			
	Medical information:	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 Reg	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and catego	Hazard class and category code: Hazard statements*:			
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For fu	*For full text of Hazard- and EU Hazard-statements: see SECTION 16				
2.2	Label elements				
	Product identification: SUDAN BLACK B REAGENT, PHENOL FREE				
	Identification number:	Identification number: -			
	Authorization number: -				



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Trading name:	SUDAN BLACK B REAGENT, PHENOL FREE				
Product code:	SBBP-OT-X**	Revision date:	05 Dec 2022	Version:	2

	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.
	Precautionary statements:	P210 Keep away from heat, hot sparks, open flames and other ignition sources. No smoking.  P233 Keep container tightly closed.  P280 Wear protective gloves/protective clothing/eye/protection/face protection.  P403+P235 Store in a well-ventilated place. Keep cool.
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	The product has no other know	n specific hazards for human or environment.
	Results of PBT and vPvB assessr PBT or vPvB substances.	ment: Based on available data, the product does not contain any
	Endocrine disrupting property:	Based on available data, does not contain endocrine disruptors.

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

SECTIO	SECTION 4. First aid measures			
4.1	Description of first aid measures			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.		
	Following inhalation:	Take the victim into fresh air, loosen his clothes and place him in a comfortable position. If breathing difficulty occurs, administer artificial respiration. In case of complaints call a physician.		



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	Following skin contact:	Remove the contaminated clothes. Wash the skin surface under plenty of running water. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	In case of contact with eyes flush with water holding eyelids apart and moving the eyeballs (for at least 10 minutes). If the symptoms remain, immediately call in ophthalmologist.		
	Following ingestion:	Place the victim in a comfortable position. Rinse the mouth with clean water. If the victim is conscious induce vomiting.  Do not give the victim anything orally, and do not induce vomiting if the victim is unconscious or suffers from convulsions.		
	Self-protection of the first aider:	-		
4.2	Most important symptoms and ef	Most important symptoms and effects, both acute and delayed		
	Following inhalation:			
1	Tollowing initialation.	Inhalation of larger quantities may affect the central nervous system.		
	Following skin contact:	Inhalation of larger quantities may affect the central nervous system.  Prolonged or repeated dermal contact may cause the defatting and dryness of the skin.		
		Prolonged or repeated dermal contact may cause the defatting and		
	Following skin contact:	Prolonged or repeated dermal contact may cause the defatting and dryness of the skin.		
4.3	Following skin contact:  Following eye contact:  Following ingestion:	Prolonged or repeated dermal contact may cause the defatting and dryness of the skin.  May irritate the eyes.		

SECTI	ION 5. Firefighting measures		
5.1	Extinguishing media		
	Suitable extinguishing media:	Extinguishing powder, alcohol-resistant foam, water, carbon-dioxide.	
	Unsuitable extinguishing media:	Water with full jet.	
5.2	Special hazards arising from the su	ubstance or mixture	
	Hazardous combustion products:	Highly flammable liquid and vapour.  In case of fire, smoke, and other combustion products (carbon monoxide, carbon dioxide) may be formed, the inhalation of such combustion products can have serious adverse effects on health.  Vapours may form an explosive mix with air. Vapours may be ignited by open flames, sparks, electrical equipment, or static charge.  Vapours may travel to great distances, ignite in contact with ignition sources and flash back to the primer source (container).  Vapours of ethyl alcohol mix greatly with air and may form an explosive mixture. Air containing 3.3 – 19 % ethyl alcohol vapours may explode in contact with ignition sources. Diluting the mixture with large amounts of water results in the loss of its flammability (around 10 % concentration of ethyl alcohol).	
5.3	Advice for firefighters		
	Wear full protective clothing and s water spray. Use water spray to dis	elf-contained breathing apparatus. Cool the fire affected containers with	



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5.4	Additional information
	-

6.1	Personal precautions, protective	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.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	ventilation. Vapours may accu and spark sources, turn off ma	Avoid contact with skin, eyes and clothing and inhaling gases, vapours and aerosols. Ensure adequate ventilation. Vapours may accumulate at floor level in low and confined spaces. Remove all heat, ignition and spark sources, turn off machines. Ignition spark arrestor must not be operated in the danger area. Use spark-proof tools. Be aware of the risk of slipping.		
6.2	Environmental precautions:			
	Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.			
6.3	Methods and material for con-	tainment and cleaning up		
	Bunding, covering of drains; Sand protective harrier or harriers made of similar materials			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.		
6.3.1.		Sand protective barrier or barriers made of similar materials.  Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal.  During the collection, placement, disposal of the waste, wear appropriate individual protective equipment.  Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution).		
6.3.2.	capping procedures:	Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal.  During the collection, placement, disposal of the waste, wear appropriate individual protective equipment.  Flush the remains with plenty of water. The product loses its flammability, if		
6.3.2. 6.3.3.	capping procedures:  Cleaning up:	Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal. During the collection, placement, disposal of the waste, wear appropriate individual protective equipment.  Flush the remains with plenty of water. The product loses its flammability, if diluted with significant amount of water (approx. 10% solution).  Secure proper ventilation. Do not use incompatible materials (see Section		
6.3.2. 6.3.3.	capping procedures:  Cleaning up:  Other information:	Collect the spilled product with inert, non-combustible absorbent (e.g. sand, vermiculite, earth) then place into a suitable, closed, properly labelled chemical waste container for removal/disposal.  During the collection, placement, disposal of the waste, wear appropriate individual protective equipment.  Flush the remains with plenty of water. The product loses its flammability, it diluted with significant amount of water (approx. 10% solution).  Secure proper ventilation. Do not use incompatible materials (see Section 10).		
	capping procedures:  Cleaning up:  Other information:  Reference to other sections	Collect the spilled product with inert, non-combustible absorband, vermiculite, earth) then place into a suitable, closed, prolabelled chemical waste container for removal/disposal.  During the collection, placement, disposal of the waste, wear againdividual protective equipment.  Flush the remains with plenty of water. The product loses its flat diluted with significant amount of water (approx. 10% solution).  Secure proper ventilation. Do not use incompatible materials (s. 10).		

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



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	Measures to prevent fire:	Use in well ventilated storage rooms. Kee away from heat, hot surfaces, sparks, operflames and other ignition sources. It is smoking. Use non-sparkling tools are equipment.
	Measures to prevent aerosol and dust generation	n: Ensure adequate 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 wash hands after work and before eating.
7.2	Conditions for safe storage, including any incom	patibilities
	Technical measures and storage conditions:	Store in a well-ventilated place, protected from sunligl away from sources of heat and ignition, in its origin unopened and hermetically sealed packaging, aw from oxidizing agents, food, feed and articles consumption.
	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 mube resistant to chemicals. There must be no drain the directly leads into sewage system. Secure proportion.
	Further information on storage conditions:	Do not place the unused material in the storage roo and do not use empty containers for storing oth chemicals. Do not store with incompatible materials (so Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection									
8.1 Control parameters									
Substance	ance CAS No		exposure limit t term values	Biological limit values					
		ppm	mg/m³						
Ethanol	64-17-5	1000/-	1900/-	-					
			·						
Substance name: -									



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								Page 6 01 17		
Trading nam	ne:			SU	DAN BL	ACK B F	REAGENT, PHENO	L FREE		
Product code	e: S	SBBP-OT-X** Revisio		on date:	05 Dec 2022	Version:	2			
	-			1						
EC No:		-	CAS No	):	-					
DNEL										
				•	Inc	dustrial		T		
Route of		Αcι	ıte	А	Acute		Chronic	Chronic		
exposure:		effect	local	effect	systemic		effect local	effect systemic		
Oral	-			-		-		-		
Inhalation		1900 mg [ethanol]		-		-		380 mg/m³ (ethanol)		
Dermal	-			-		-		343 mg/kg (ethanol)		
Critical physic	al parar	meters: s	solubility,	flammal	bility, cor	rosivity:	-			
					Co	nsumer				
Route of		Ad	cute	Δ	Acute		Chronic	Chronic		
exposure:		effec	t local	effect	systemic	<b>C</b>	effect local	effect systemic		
Oral		-		-		-		87 mg/kg bw/day (etha	anol)	
Inhalation		950 m (ethan	_	-		-		114 mg/m³ (ethanol)		
Dermal		-		-		-		206 mg/kg (ethanol)		
PNEC										
Environmenta	l protec	tion tar	get			PNEC				
Fresh water						0.96 mg/	'l (ethanol)			
Freshwater se	diments	S				3.6 mg/kg (ethanol)				
Marine water						0.79 mg/l (ethanol)				
Marine sedim	ents					2.9 mg/kg (ethanol)				
Food chain						380-720 mg/kg (ethanol)				
Microorganisr	ms in se	wage tr	eatment			580 mg/l (ethanol)				
Soil (agricultu	ral)					0.63 mg/kg (ethanol)				
Air				no information available						
8.2 E	xposure	e contro	ls							
8.2.1. A	Appropr	iate eng	ineering	controls						
S	Substand	ce/mixtu	ıre relateo	d measui	res to	concentr	ation limit it is the	naterial with no contro e employer's duty to k	сеер	

prevent exposure during identified uses:

Structural measures to prevent

exposure:

concentration levels down to a minimum achievable by

existing scientific and technological means, where the

hazardous substance poses no harm to workers.

In accordance with Section 7.



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	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Use according to general application methods and with adequate ventilation.		
			Use non-sparkling ventilation system.		
			Provide appropriate personal protective equipment, safety shower and eye-wash station.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Use appropriate, chemical-proof protective glasses/face shield (EI ISO 16321-1:2022, EN 166).			
8.2.2.2.	Skin protection	·			
	Hand protection: Use ap		ppropriate, chemical-resistant protective gloves (EN 374).		
	Other skin protection:	Use appropriate protective clothing.			
8.2.2.3.	Respiratory protection:	concer in the contac	e of normal usage and ventilation, it is not necessary. If ntration of ethyl alcohol exceeds occupational exposure limits air, use a self-contained breathing apparatus. For short t and if the oxygen content of the air is greater than 18 %, use ective gas mask with filter A (EN 14837/A1).		
8.2.2.4.	Thermal hazards:	No the	ermal hazards known.		
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 ace.		
	Technical measures to prevent exposure:	See Se	ction 6		

SECT	SECTION 9. Physical and chemical properties						
9.1	Information on basic physical and chemical properties						
		Method					
	Physical state:	liquid	No information available				
	Colour:	black	No information available				
	Odour/odour threshold:	ethanol like/no information available	No information available				
	Melting point / freezing point:	No information available	No information available				



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Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lower and upper explosion limit:	lower: 3.3 Vol % upper: 19 Vol %	No information available
Flash point:	21 °C	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	in water completely miscible	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:	~ 0.867 (20°C)	No information available
Relative vapour density:	No information available	No information available
 Particle characteristics:	No information available	No information available
Other information		

SECTIO	SECTION 10. Stability and reactivity					
10.1	Reactivity:	See Section 10.5.				
10.2	Chemical stability:	Stable within normal temperature and general work conditions.				
10.3	Possibility of hazardous reactions:	See Section 10.5.				
10.4	Conditions to avoid:	Keep away from heat, sparks, open flames, strong heating and ignition sources. No smoking.				
10.5	Incompatible materials:	Strong oxidizing agents (inorganic strong acid, nitric acid, perchlorates, peroxy compounds, perchloric acid, permanganates etc.), alkali metals, alkali earth metals.				
10.6	Hazardous decomposition products:	Carbon monoxide and carbon dioxide.				

SECTION 11. Toxicological information								
11.1 Ir	Information on hazard classes as defined in Regulation (EC) No 1272/2008							
А	Acute toxicity:							
Route of exposure:		Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exposure time	Results		



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Product code:	SBBP-OT-X	SBBP-OT-X**		Revision date: 05 Dec 2		2022	Versio	Version: 2
Oral:	_	rat (ethano	sh in	LD <sub>5</sub>	_		7.0	)60 ma/k
Dermal:		rabbit (ethan	-	LD <sub>5</sub>	-	-		060 mg/kg 0.000 mg/
Inhalation:	_	rat (ethano		LC <sub>50</sub>	-	- 4 h		0.000 mg/ 3.000 mg/
iiiiaiatiOii.		rat (etilalic	ווע	LC5(	0	411	/0	5.000 mg/
Specific to	arget organ tox	icity – single e	xposure (	STOT SE)	:			
	Sţ	pecific effects			Target orga	n	No	ote
Oral:	No informat	ion available		No inf	ormation avail	able -		
Dermal:	No informat	ion available		No inf	ormation avail	able -		
Inhalation:	No informat	ion available		No inf	ormation avail	able -		
	·							
Aspiratio	n hazard:		No info	mation a	available.			
Irritation	and corrosion							
	Ехро	sure time	Spe	cies	Evaluation	Method	١	lote
Skin corrosion/irritation	า:		-		-	-	-	
Serious eye damage/irritation	-		-		-	_	_	
Sensitizat	ion							
Skin sensitization:		information a	vailable					
Respiratory sensiti		information a						
respiratory sensiti	2411011.	THOMAGON 4	vanabie.					
Symptom	ns related to the	physical, cher	mical and	toxicolo	gical character	istics		
Oral exposure:	unconscio	on of great ousness and alo may occur. Rep	ohol pois	oning. Ir	case of swallo	wing great q		ausea and
Dermal exposure:	After pro		epeated exposure symptoms may include: defatting, dryness and					
Inhalation exposui	re: Inhalation membran	of great quan es.	tities may	cause di	zziness, eupho	ria and mild i	rritation of	the muco
Eye exposure:	May caus	e irritation and	l redness.					
Repeated	dose toxicity (	subacute, subc	hronic, ch	ronic)				
	Dose	Exposure time	Spec	ies	Method	Evaluatio	on I	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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Trading name:	SU	DAN BLACK B REAC	GENT, PHENOL FREE		
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	CMR effects (carcinogenicity; mutagenicity	y; 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.			
	Summary of evaluation of the CM properties:	MR Based on available data, the classification criteria are not met.			
11.2	Information on other hazards:				
11.2.1.	Endocrine disrupting properties:				
	Based on available data, does not conta endocrine disruptors.	ain			
11.2.2.	Other information:				
	-				

SECTION 12. Ecologic	SECTION 12. Ecological information					
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	golden orf	No information available	8.140 mg/l /48 h (ethanol)	-
Crustacea:	EC <sub>50</sub>	48 hours	daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	algae	No information available	5.000 mg/l / 7d (ethanol)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-



Bioconcentration factor (BCF)

**Species** 

Value

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Product code		SBBP-OT-X* <sup>*</sup>	<b>t</b>	Revision date: 05 Dec 202		022	Version:	
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No information available	No infor	i _	
Algae/aquatic p	olants	IC <sub>50</sub>	72 hours	No information available	No information available	No infor	: <b>-</b>	
Other organism	าร	-	-	-	-	-	_	
12.2 Dorsiel		and doors dala	:1:4.					
		and degradab radation	ility					
Abioti	1	egradation ha	alf-lives	Method	Evaluati	on	Not	
Marine water		information a		No information available	No information		1400	
Fresh water	No	information a	vailable	No information available	No information	on -	-	
Air	No	No information available		No information available	No information available		-	
Soil	No	information a	vailable	No information available	No information available		-	
Biode	gradat	ion						
% Degradati		Time (d	lays)	Method	Evaluati	on	Not	e
No information available	1	No inf available	ormation	No information available	No information available		No informatio vailable	on
		ative potential		og Kow)		::		
Value	-	ncentration	рН	°C Method	Eval	uation	No	ote
Log Pow: ~	_				-		The produ	

Method

**Evaluation** 

Note



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	•		S	UDAN B	BLACK B REA	AGENT,	PHEN	OL FF	REE		
Product code	SB	BP-OT-X**		Revisi	ion date:	05 D	ec 202	2		Version:	2
BCF: 0.66	No information available		ation	ation No information available		No information available		-			
Chron	ic ecoto	xicity									
Value	9	Dose		osure ime	Species	Meth	nod	Eval	uation	Note	)
Chronic toxicity	on fish	LC <sub>50</sub>	No infor availa	mation	No information available	No informa availab		No inforn availa	nation ble	-	
Chronic toxicity crustacea ( <i>Dap</i>		EC₅o	No infor availa	mation	No information available	No informa availab		No inforn availa	nation ble	-	
		licted distributi n available	on in e	environme	ental compart	ments:					
Known No inf Surfac  Va No inform	ormation	n available n: °C No information	C No	environme oncentrat informati	ion	Metho				Note	
Known No inf Surfac Va No	ormation	n available n: °C No	C No	oncentrat informati	ion ion No inf	Metho		-		Note	
No inf Surface Va No inform availal	ormation e tension lue nation ble	n available n: °C No information	C No	oncentrat informati	ion ion No inf	Metho				Note	
No inf Surface Va No inform availal	ormation ole	n available n:	No ava	oncentrat informati	ion ion No inf	Metho formation ble	1		<b>d</b>	Note	
No inf Surface Va No inform availal	ormation ole	n available n:     °C No information available  desorption Coefficient ry's constant information	No ava	oncentrat informati iilable og Kow	ion No inf availal	Methor formation ble	n N	/lethoo			
No inf Surface Va No inform availal  Adsor  Transport	ormation old A/E Hen	n available n:	No availa	oncentration information infor	ion ion No infavailal  Evaporati n No informavailable	Methor formation ble for rate	No in availa	Method format ble format	tion	Note	



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-				•	

12.6.	Endocrine disrupting properties	
	Based on available data, does no	t contain endocrine disruptors.
		·
12.7.	Other adverse effects	
	Do not let the product or its resid	dues reach sewer system, waterways and soil.
SECTIO	N 13. Disposal considerations	
13.1	Waste treatment methods	
	:	
13.1.1.	Product/Packaging disposal:	
	Submit for disposal to the lega Protection.	Il person authorized by the Ministry of Environmental and Nature
	:	
13.1.2.	Waste codes/waste designatio	ns according to Law:
	Packaging that contains residu	al hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevant info	ormation:
	No information available	
42.4.4		
13.1.4.	Sewage disposal – relevant info	
	Waste must not be disposed o	f into the sewage system.
13.1.5.	Other disposal recommendation	ons:
	Do not dispose of the product authorized by the ministry in o	t's remains into the sewage system. Submit the remains to the collectors charge. Do not dispose of the packaging into the sewage system. Submit is authorized by the ministry in charge. Unused product residues may be
13.1.6.	Relevant Community provision	s:
	Disposal must be made accord	ling to official regulations.
SECTIO	N 14 TRANSPORT INFORMATIO	)N
	Transporting/shipment by road (	ADR)
UN nun	nber:	1170
UN pro	per shipping name:	Ethanol solution
•	ort hazard class(es):	3
Packing	group:	П



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Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	RID)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	II
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 (I	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 (IC	CAO-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:	_



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15.1	EU regulations	nmental regulations/legislation specific for the substance or mixture		
	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; COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).		
		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 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				
	None			

SECTION 16. Other information	
16.1 Indication of changes:	-



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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:  Manufacturer's MSDS file.				
16.4.	Classification and procedure use 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)		
Classification			Classification procedure		
_					
16.5.	Releva	nt H statements (numb	er and full text)		
		225	Highly flammable liquid and vapor.		
			Harmful if swallowed.		
		319	Causes serious eye irritation.		
		411	Toxic to aquatic life with long lasting effects.		
16.6.	Training advice:		-		
16.7.	16.7. Further information:		** "X" in the product code marks different volumes (different packagings of the product)  We are not responsible for consequences in case of failure to comply with		
			nstructions for use or improper use of the product described in this naterial safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment
-