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Trade name:	HEMATOXYLIN, VERHOEFF A					
Product code:	HEMV-OT-X**	Date of compilation:	01 July 2019	Version:	2	

1.1.	Product identifier					
	Trade name:	HEMATOXYLIN	, VERHOEF	F A		
	Chemical name:	-				
	Catalogue number:	HEMV-OT-X**				
1.2.	Relevant identified uses	of the substance	ce or mixtu	re and uses advised against		
	Uses:		For use \	vith Verhoeff kit.		
	Uses advised against:		Only the	identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:	BioGr	ost Ltd.	.td.		
	Address:	Medjı	ugorska 59,	59, Zagreb		
	Telephone number:	+385	1 2409997	409997		
	Telefax:	+385	1 2404039	039		
	e-mail of competent pe	rson: <u>msds</u>	s@biognost.hr			
	National contact:	-				
1.4.	Emergency telephone n	Emergency telephone number				
	National Protection and	Rescue Directo	rate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	N 2. Hazards identification						
2.1.	Classification of the substan	Classification of the substance or mixture					
2.1.1.	Classification according to R	egulation (EC) No 12	72/2008 (CLP)				
	Hazard class and category code: Hazard statements*:						
	Flam. Liq. 2 H225						
2.1.2.	Additional information						
	-						
*For fu	l text of Hazard- and EU Haza	rd-statements: see Se	ection 16				
2.2.	Label elements						
	Product identification:	Product identification: HEMATOXYLIN, VERHOEFF A					
	Identification number:	Identification number: -					
	Authorisation number:	-					



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	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.
	Precautionary statement:	<ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces. Do not smoke.</li> <li>P233 Keep container tightly closed.</li> <li>P280 Wear protective gloves/protective clothing/eye/protection/face protection.</li> </ul>
	Supplemetal hazard information (EU)	-
2.3.	Other hazards	
	-	

SECTION 3. Compo	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification (REGULATION) (EC) No 1272/2008 (CLP)				
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610- 43-xxxx	≥ 70 %	ethanol	Flam. Liq. 2, H225				

SECTI	ON 4. First aid measures	
4.1.	Description of first aid measures	
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.
	Following skin contact:	Remove contaminated clothing. Thoroughly wash with water for 15 minutes.
	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 15 minutes with the eyelids held wide open.
	Following ingestion:	Rinse the mouth thoroughly with water. If the afflicted person is conscious, provide them with large amounts of water. Consult a physician.
	Self-protection of the first aider	-
4.2.	Most important symptoms and eff	ects, both acute and delayed



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	Following inhalation:	May cause eye irritation and upper respiratory system (stinging sensation, irritation). Bronchoconstriction is possible. Possible symptoms include CNS symptoms such as headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration.		
	Following skin contact:	Defatting, dry skin.		
	Following eye contact:	Splatter may cause discomfort, stinging sensation, conjunctival redness, corneal surface lesions.		
	Following ingestion:	It may lead to occurrence of strong sensation of stinging, headache, vertigo, intoxication and loss of consciousness after exposure to higher levels of concentration. If denaturants are present, dyspepsia may occur (such as vomiting).		
4.3.	Indication of any immediate medica	l attention and special treatment needed		
	No information available			

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

SECTIO	SECTION 6. Accidental release measures					
6.1.	Personal precautions, protective equ	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment:  When disposing of small quantities use protective clothing. Whe disposing of large quantities use self-contained open-circuit compressed air breathing apparatus or self-contained closed-circuit air breathing apparatus.					
	Accident prevention methods:	Secure a safety zone, remove all ignition sources, and in case of an accident inform the Emergency service (112) and the manufacturer or sender. Position a prohibition sign with symbols of flame and devices that cause sparks.				



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	Remove or neutralize all factors that may exacerbate the condition, use all allowed means of containing the situation at use recommended means of personal protection.				
6.1.2.	For emergency respond	ers:			
	Self-contained open-circ dissipation (fireproof clo	cuit compressed air breathing apparatus, a set for protecting the body from heat thing).			
6.2.	Environmental precaution	ns:			
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.				
6.3.	Methods and material for containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials			
6.3.2.	Cleaning up:	Sawdust, sand, mineral adsorbents			
6.3.3.	Other information:  Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112).				
6.4.	Reference to other secti	ons			
	-				

SECTIO	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Keep away from sources of ignition and heat. Do not use tools that cause sparks.		
	Measures to prevent aerosol and dust generation:		Secure proper ventilation.		
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.		
	Other measures:		-		
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. Thoro	ughly was	sh hands after work and before eating.		
7.2.	Conditions for safe storage, including any incompat	ibilities			
	Technical measures and storage conditions:	Keep in a well-ventilated place. Keep away from heat and direct solar radiation.			
	Packaging materials:	Manufacturer's original packaging.			
	Requirements for storage rooms and vessels:	•	vay from food and drink. Keep the ers tightly closed.		



Marine sediments

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

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	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	-
7.3.	Specific end use(s)	
	Recommendations: -	
	Industrial sector specific solutions:	

8.1. Control	paraı	meters	-						
Substance					rupational exposure limit		Biological limit values		
				ppm	mg/m³				
Ethanol			64-17	<b>'-</b> 5	1000/-	1900/-		-	
Substance: -									
EC No: -			CAS No:	_					
DNEL			C/13 IVO.						
					Industrial				
Double of comment		Acute			Acute	Chroni	ic	Chronic	
Route of exposure:		effe	fect local effe		ect systemic	systemic effect loc		effect systemic	
Oral -		-		-		-		-	
Inhalation -		-	-			-		950 mg/m³ (ethanol)	
Dermal		-		-		-		343 mg/kg (ethanol)	
Critical physical p	aram	neters: s	olubility, fla	mmabilit	ty, corrosivity:				
					Consumer				
Route of exposu	ro.	A	Acute		Acute	Chroni	ic	Chronic	
Route of exposu	ie.	effe	ect local	effe	ect systemic	effect lo	cal	effect systemic	
Oral		-		-		-		-	
Inhalation		-		-		-		114 mg/m³ (ethanol)	
Dermal		-		-		-		206 mg/kg (ethanol)	
PNEC									
Environmental protection target			PNEC						
Fresh water				0.96 m	0.96 mg/l (ethanol)				
Freshwater sediments				3.6 mg	3.6 mg/kg (ethanol)				
Marine water					0.79 m	0.79 mg/l (ethanol)			

no information available



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Food chai	n		no information available		
Microorga	anisms in sewage treatment		no information available		
Soil (agric	cultural)		0.63 mg/kg (ethanol)		
Air			no information available		
8.2.	Exposure controls				
8.2.1.	Engineering measures				
	Substance/mixture related mea prevent exposure during identi		Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		No information available		
	Organisational measures to pre exposure:	event	Organization of work in order to reduce other worker's influence during work process.		
Technical measures to prevexposure:			See Section 7.2		
8.2.2.	Personal protection equipment	t			
8.2.2.1. Eye and face protection: levels of co			glasses that stick to face (EN166) 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				
	In case (0.4 mr) Hand protection: gloves Protect		e of coming into thorough contact, use butyl rubber gloves mm thick). In case of contact with drops, use polychlorene s (0.1 mm thick).  Cive gloves must be according to the EU Directive 425/EEC and standard EN 374.		
	Other skin protection: spilling suitab		g everyday work use cotton clothing and suitable footwear, as rubber boots or shoes that cover the entire foot. In case of g hazard, use clothing made of impermeable material le for protection from liquid chemicals (Viton, PVC, himex) botwear made from the same material.		
8.2.2.3.	Respiratory protection:		concentration level exceeds the GVI values, use full gas mask ped with brown filter A.		
8.2.2.4.	Thermal hazards:	No inf	formation available		
8.2.3.	Environmental exposure contro	ols			
	Substance/mixture related measures to prevent exposure:	See	e Section 6		
	Structural measures to prevent exposure:	Us	e modern equipment.		
	Organisational measures to prevent exposure:		apt the work process to the required working conditions of e workplace.		



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Technical measures to prevent exposure:	See Section 6
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Information on basic physical ar	d chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	brown red	No information available
Odour:	ethanol like	No information available
Odour threshold;	No information available	No information available
pH:	No information available	No information available
Melting point / freezing point;	No information available	No information available
Initial boiling point and boiling range:	No information available	No information available
Flash point:	17 °C	No information available
Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	No information available	No information available
Vapour pressure:	No information available	No information available
Vapour density:	No information available	No information available
Relative density:	No information available	No information available
Bulk density:	No information available	No information available
Solubility(ies):	Completely soluble in water	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	No information available	No information available
Explosive properties:	No information available	No information available
Oxidising properties:	No information available	No information available

SECT	SECTION 10.: Stability and reactivity						
10.1.	Reactivity:	The product is stable under normal working and storage conditions.					



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

11.1. Inform	ation on toxicologica	l effects						
Acute t	oxicity:							
Route of exposure:	Method	Species	Effectiv LD <sub>50</sub> /L ATE <sub>n</sub>	.C <sub>50</sub> or	xposure time	Res	ults	
Oral:	No information available	rat	LD <sub>50</sub>	-		7.060 mg/kg (ethanol)		
Dermal:	No information available	-	-					
Inhalation:	No information available	rat	LC <sub>50</sub>	4 h	1	20.000 mg,	/I (ethanol)	
Specifi	c target organ toxicit	y – single ex	xposure (S1	TOT SE):				
	Spec	cific effects		Tar	get organ		Note	
Oral:	No information	available	No information available -					
Dermal:	No information	available	No information available -					
Inhalation:	No information	available	No information available -					
Respira	ntory irritation:		May cause respiratory irritation.					
Irritatio	on and corrosion							
	Exposure	time	Species	Evaluatio	n Metho	od	Note	
Skin corrosion/irritati	on:	-		-	-	No availabl	information e	
Serious eye	n -	-		-	-	No availabl	information	



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Respiratory sensitization:	No informatio	n available							
Sympto	ms related to the p	-							
Oral exposure:	loss of conscio	ousness after ex	-	of stinging, hear r levels of conce ng).	_				
Dermal exposure	: Defatting, dry	skin.							
Inhalation exposure:	Bronchoconsti	riction is possib tigo, intoxicatio	le. Possible sym	y system (stingin otoms include C nsciousness afte	NS symptoms su	uch as			
Eye exposure:  Splatter may cause discomfort, stinging sensation, conjunctival redness, corneal surface lesions.									
Repeate	ed dose toxicity (su	bacute, subchro	onic, chronic)	ï	i				
	Dose	Exposure time	Species	Method	Evaluation	Note			
Subacute oral	No information available	No information available	No information available	No information available	No information available	-			
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-			
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-			
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-			
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-			
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-			
Chronic oral No information available		No information available	No information available	No information available	No information available	-			
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-			



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Trade name:		HEMATOXYLIN	I, VERHOEFF A			
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Chronic inhalati			No information available	No information available	n	No information available	No informati available	on	-		
	Specific	target o	rgan toxic	ity – repeated e	exposure (STC	OT RE	).				
	opeeme	. tai get o	- garr toxic	Specific effect	•	J	Target org	nan	Note		
Subacu	te oral		No infor	mation availabl		No ii	nformation av		_		
Subacu	te derma	<u> </u>	No infor	mation availabl	e	No ii	nformation av	ailable	-		
Subacu	te inhalat	ion	No infor	mation availabl	е	No ii	nformation av	-			
Subchro	Subchronic oral No information available			е	No ii	nformation av	ailable	-			
Subchronic dermal No information available				е	No ii	nformation av	ailable	-			
Subchronic inhalation No information available				е	No ii	nformation av	ailable	-			
Chronic oral No information available				е	No information available			-			
Chronic dermal No information available				e	No ii	nformation av	ailable	-			
Chronic inhalation No information available					e	No ii	nformation av	ailable	-		
	Carcino	genicity: enicity <i>in-</i>		ty, mutagement	No info	reproductive toxicity)  No information available  No information available  No information available					
	Mutage	enicity <i>in-</i>	vivo:		No info	No information available					
	Germ c	ell mutag	enicity:		No info	No information available					
	Reprod	uctive to	xicity:		No info	No information available					
	Summa	,	evaluatior	n of the CN	MR _						
11.2.	Practica	al experie	nces:								
	Remark	s relevan	t for classi	fication:	No inf	forma	tion available				
	Other r	emarks:			No inf	forma	tion available				
11.3.	Note:										
11.0.	TAULE.										

SECTION 12.	<b>Ecological</b>	information:
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12.1. Toxicity



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Acute (short-terr toxicity	n)	Dose	Exposure time	Species	Met	hod	Evaluatio	n Note	е
Fish		LC <sub>50</sub>	96 hours	No information available	No informa availab		No informatio available	n -	
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No informa availab		No informatio available	n -	
Algae/aquatic pla	ants ]	IC <sub>50</sub>	72 hours	No information available	inforn	lo nation lable	No informatio available	n -	
Microorganisms		-	-	No information available	No informa availab		No informatio available	n -	
Chronic (long-term) toxicity		Dose	Exposure time	Species	Met	hod	Evaluatio	n Note	е
Fish		LC <sub>50</sub>	96 hours	No information available	No informa availab		No informatio available	n -	
Crustacea:		EC <sub>50</sub>	48 hours	No information available	No informa availab		No informatio available	n -	
Algae/aquatic pla	ants ]	IC <sub>50</sub>	72 hours	No information available	No informa availab		No informatio available	n -	
Microorganisms		_	-	-	-		-	-	
		d degradak	pility						
Abiotic		gradation h	alf-lives	Metho	nd		Fyalı	ıation	Note
Marine water		ormation a		No information		e N	o informatio		-
Fresh water	No info	ormation a	vailable	No information	available	e N	o informatio	on available	-
Air	ir No information available			No information	available	e N	o informatic	n available	-
Soil	No info	ormation a	vailable	No information	available	e N	o informatio	on available	-
Dio do	adatic:	`							
Biodegr % Degradation		Time (days	-)	Method		Evalua	ntion	Note	
70 Degradation		Time (uays	?)	IVICUIOU		Lvaiud	1011	INOLE	



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										i ago i	2 01 10	
Trade i	name:				HI	EMAT	OXYLIN	I, VERHOEFF A				
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								- 1			·	
	·											
12.3.	Bioaccumu	ılative pote	ential									
	Partition co	oefficient: ı	n-octano	l/wate	er (log Ko	w):						
Valu		ncentration						Evaluatio	n		Note	
_								_				
	D:		h (DCF)									
	Bioconcen					4 (1		F 1				
	'alue	pecies			/lethoo		Evaluation			Note		
No into availabl	rmation	No inforn available	nation		No info		on	No information available		No inform available	nation	
avanabi		avanabie			avanab			avanasie		avanable		
·····												
	Chronic oc	atavisitu										
	Chronic ec	Otoxicity		Г								
	Value		Dose	Exposure time		Species		Method	Evaluation		Note	ē
				No		No		No	-			
Chronic	toxicity on	fish Lo	1	nform	ation	information		information	No information available		)    -	
				availak	ole	available		available	ava	labie		
Chronic	toxicity on		1	No		No		No	No	informatior	1	
	ea (Daphnia)	) E	30	nform		information		information		lable	<b>'</b> -	
	<u> </u>		6	availak	oie	availa	abie	available				
40.4		.,										
12.4.	Mobility in											
	Known or			on in e	environm	ental c	comparti	ments:				
	No inform		able									
	Surface ter	nsion:					1					
	Value		°C	C	oncentra	tion		Method		No	ote	
	No	No		No	informa	tion	No info	ormation				
	informatio available	n inforn availa	nation ble	ava	ilable		availab	ole	-			
	available	avana	<i>Σ</i> ΙC									
	[	<u> </u>					<u> </u>					
	٠, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١,	. / d ···· ·										
	Adsorption	i / desorpt	1011									



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Transpo	rt .	oefficient s constant	log Kow	Evaporation rate	Method	Note
Soil-wat	er No available	information	No information available	No information available	No information available	-
Water-a	ir No available	information	No information available	No information available	No information available	-
Soil-air	No available	information	No information available	No information available		
12.5.	Results of PBT	and vPvB asses	ssment			
	No information	available				
12.6.	Other adverse	effects				
	No information	available				
SECTIO	N 13. Disposal (	consideration	s			
13.1.	Waste treatm					
13.1.1.	Drodust/Dosla	raging dispass	ı.			
13.1.1.		aging disposa sposal to the l		zed by the Ministry	of Environmental and	d Nature
13.1.2.	Waste codes	/waste designa	tions according to I	Law:		
	No information		<u> </u>			
13.1.3.	Waste treatm	nent – relevant	information:			
	No information					
13.1.4.	Sewage dispo	osal – relevant	information:			
			d of into the sewage	e system.		
13.1.5.	Other dispos	al recommend	ations:			
	Do not dispo authorized by	se of the prod the ministry i g to the collect	uct's remains into th n charge. Do not di	spose of the packag	Submit the remains to ging into the sewage e. Do not dispose of	system. Submit
13.1.6.	Relevant Con	nmunity provis	ions:			



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SECTION 14. Transport information	
Transporting/shipment by road (	
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by inland	waterways (ADN)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Transporting/shipment by sea (II	MDG)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П
Environmental hazards:	No information available
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	1170
UN proper shipping name:	Ethanol solution
Transport hazard class(es):	3
Packing group:	П



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Environmental hazards:	No information available
Special precautions for user:	-
Further information: -	

5.1.	Safety, health and enviro	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations				
	Authorization and/or rest	trictions of use			
	Authorizations:	-			
	Restrictions:	-			
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives			
	Information according 19 quideline)	999/13/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, Transport of Hazardous Substances Act			
5.2.	Chemical safety assessme	ent			
	None				

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



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Trade name:					
Product code:	HEMV-OT-X**	Date of compilation:	01 July 2019	Version:	2

16.2.	Abbreviations and acronyms:	PBT Stable, bioaccumulative and toxic  vPvB Strongly stable and strongly bioaccumulative.  LD <sub>50</sub> Lethal dose, 50%  LC <sub>50</sub> Lethal concentration, 50%  TCOJ Specific target organ toxicity - single exposure		
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)		
Classific	cation	Classification procedure		
-		-		
16.5.	Relevant H statements (num	ber and full text)		
	H: 225	Highly flammable liquid and vapor.		
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 w instructions for use or improper use of the product described in this material safety data sheet.		

#### ANNEX:

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 



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

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Trade name:	FERRI REAGENT, VERHOEFF B						
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2		

SECTI	ON 1. Identification of th	e substance/m	ixture a	and of the company/undertaking		
1.1.	Product identifier	Product identifier				
	Trade name:	FERRI REAGENT, VERHOEFF B				
	Chemical name:	-				
	Catalogue number:	FRV-OT-X**				
1.2.	Relevant identified uses	of the substance	ce or mi	xture and uses advised against		
	Uses:		For use	e with Verhoeff kit.		
	Uses advised against:		Only th	he 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 and there is no reason to use it for other purposes.			
1.3.	Details of the supplier o	Details of the supplier of the safety data sheet				
	Supplier:	BioGr	nost Ltd.			
	Address:	Medj	ljugorska 59, Zagreb			
	Telephone number:	+385	5 1 2409997			
	Telefax:	+385	5 1 2404039			
	e-mail of competent pe	rson: <u>msds</u>	ls@biognost.hr			
	National contact:	-				
1.4.	Emergency telephone number					
	National Protection and	National Protection and Rescue Directo		112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	FION 2. Hazards identification						
2.1.	Classification of the substance or mixture						
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and cat	Hazard class and category code: Hazard statement*:					
	Skin Irrit. 2		H315				
	Eye Irrit. 2 H319						
2.1.2.	Additional information						
	-						
* For fu	ıll text of Hazard- and EU Haza	rd-statements: see	SECTION 16				
2.2.	Label elements						
	Product identification: FERRI REAGENT, VERHOEFF B						
	Identification number: -						
	Authorisation number:	Authorisation number: -					



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

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Trade name:	FERRI REAGENT, VERHOEFF B						
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2		

Hazard pictograms:	GHS07
Signal word:	Warning
Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation
Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection.  P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
Supplemetal hazard information (EU)	-
2.3. Other hazards	
-	

SECTION 3. Com	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)		
10025-77-1/ 600-047-2/ -	-	≤ 10	ferric chloride hexahydrate	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 3; H412		

SECTIO	SECTION 4. First aid measures				
4.1.	Description of first aid meas	Description of first aid measures			
	General notes:	-			
	Following inhalation:	Remove person to fresh air. If breathing stops, immediately apply artificial respiration. If breathing difficulties occur, use emergency breathing apparatus. If the symptoms persist, immediately consult a physician.			
	Following skin contact:	Remove all contaminated clothes using sterile gauze. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.			



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Trade name:	FERRI REAGENT, VERHOEFF B				
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	No information available				
4.3.	Indication of any immediate	medical attention and special treatment needed			
	Following ingestion:	Burns of the mouth and throat, pain in the digestive tract, nausea, vomiting, perforation of the esophagus and stomach.			
	Following eye contact:	Redness, burning sensation, tearing, eye pain, blurred vision, severe eye damage. Hazard of permanent loss of vision.			
	Following skin contact:	Drying and cracking of skin, redness, burning sensation, burns with ulceration.			
	Following inhalation:	Cough, breathing difficulties, respiratory failure, dizziness, euphoria, narcosis, inebriation.			
4.2.	Most important symptoms a	Most important symptoms and effects, both acute and delayed			
	Self-protection of the first aider:	-			
	Following ingestion:	Rinse the oral cavity, drink 1-2 glasses of water. Do not induce vomiting. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.			
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.			

SECTIO	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Water	CO <sub>2</sub> , foam, dry powder		
	Unsuitable extinguishing medi	No inf	ormation available		
5.2.	Special hazards arising from th	substance or i	mixture		
	Hazardous combustion products:  No information available.		n available.		
5.3.	Advice for firefighters				
	Firefighters must always use fireproof suit and self-sustaining breathing apparatus with open circle that contains pressurized air in case of fire in closed space.				
5.4.	Additional information				
	Prevent spills and water used for putting out fire from contaminating waterways by enclosing and covering drains.				

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



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

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Trade name:	FERRI REAGENT, VERHOEFF B				
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2

	Protective equipment:  Accident prevention methods:		Use protective equipment in accordance with Section 8. Do not get in eyes or on skin. Do not inhale vapor/aerosols. Remove the persons not directly involved in rescuing procedure from the scene of event.	
			Keep away from heat, flames and sparks.  Secure proper ventilation.  Prevent electrostatic charge buildup.  Use only grounded devices and equipment.  Do not release in drains - explosion hazard.	
	Emergency procedure	S:	In case of accident secure the location and evacuate the personnel not involved in recovery.	
6.1.2.	For emergency respon	ders:		
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).			
6.2.	Environmental precaut	tions:		
	prevent the product fr	t from entering the environment; in case it enters environment, it is necessary to t from reachign waterways, drainage systems and soil. In the case of considerate mination, contact National protection and rescue directorate.		
6.3.	Methods and material	for containment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand bags.		
6.3.2.	Cleaning up:	Where possible, soak up the product using inert matter, such as sand, silica gel, saw dust). 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:	Recovery of contaminated area should only be conducted by qualified person that uses stipulated protective equipment. Prevent the waste water from entering waterways.		
6.4.	Reference to other sec	tions		
	See Section 7 for infor	mation about s	ecure handling.	
	See Section 8 for information about personal protective equipment.			
	See Section 13 for information about containment.			

SECTIO	SECTION 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protective measures				
	Measures to prevent fire:	Keep away from heat, flames and sparks.			
	ivieasures to prevent life.	Secure proper ventilation.			



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Trade name:	FERRI REAGENT, VERHOEFF B				
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2

	Measures to prevent aerosol and dust generation	Adequate ventilation of the rooms where the product is kept and handled. Containers must be firmly closed.		
	Measures to protect the environment:	Keep the containers firmly closed in vertical position when the product is not used. Prevent the product from entering waterways, sewerage and drainage systems by using barrage and semi-barrage made of sand, as well as covering the drainage by using plastic foil.		
	Other measures:	-		
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. The	noroughly wash hands after work and before eating.		
7.2.	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	In dry, cold and well-ventilated space. Containers must be firmly closed. Maintain adequate ventilation of the rooms where the product is kept and handled.		
	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:	Keep away from heat, flames, sparks and sunlight.		
	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:	Secure stations for rinsing eyes and showering in the vicinity of work area.		
	Industrial sector specific solutions:	-		

SECTION	SECTION 8. Exposure controls/personal protection								
8.1.	Control parameters	ol parameters							
Substance		CAS No	CAS No		exposure limit term values	Biological limit values			
					mg/m <sup>3</sup>	-			
-		-		-	-	-			
Substance name:									
EC No:	-	CAS No:	-						



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Trade name:	FERRI REAGENT, VERHOEFF B						
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2		

Product code:	FRV-U1-X^^	compi	lation:	27 June	2013	version:	2
DNEL							
		Inc	dustrial				
Route of exposure	Acute effect local	Acute e	effect				ronic effect systemic
Oral	-	-		-		-	
Inhalation	-	-		-		-	
Dermal	-	-		-		-	
Critical physical para	ameters: solubility, fla	mmability, cor	rosivity:				
		Co	nsumer				
Route of exposure	Acute effect local	Acute e		Chro	onic effect local		ronic effect systemic
Oral	-	-		-		-	
Inhalation	-	-		-		-	
Dermal	-	-		-		-	
PNEC							
Environmental prote	ection target		PNEC				
Fresh water			No information available				
Freshwater sedimen	ts		No information available				
Marine water			No information available				
Marine sediments			No information available				
Food chain			No information available				
Microorganisms in s	sewage treatment		No information available				
Soil (agricultural)			No information available				
Air			No information available				
8.2. Exposu	ire controls						
8.2.1. Approp	oriate engineering co	ntrols					
measu	nce/mixture related res to prevent exposu identified uses:	event exposure  Use the product in well ventilated rooms. Use personal protection equipment. Do not eat, dripk or smoke in the workspace				•	
Structu exposu	ıral measures to prev ıre:	ent In acco	rdance wit	h Section	7.		
	sational measures to t exposure:		zation of w work proce		ler to reduce	other work	er's influence
Techni exposu	cal measures to preve ire:			•	entilation in elow permit		p
8.2.2. Person	al protection equipm	ent					



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Trade name:					
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8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.
8.2.2.2.	Skin protection	
	Hand protection:	Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374.  Glove material: nitrile rubber  Glove thickness: ≥0.50 mm  Break through time: >480 min
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).
8.2.2.3.	Respiratory protection:	Suitable mask or half mask equipped with a combined "A-P" filter and used when concentration levels exceed GVI.
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

SECTI	SECTION 9. Physical and chemical properties						
9.1.	Information on basic physical and chemical properties						
		Value	Method				
	Physical state:	Liquid	No information available				
	Colour:	Yellow	No information available				
	Odour:	No information available	No information available				
	Odour threshold;	No information available	No information available				
	pH:	No information available	No information available				
	Melting point / freezing point;	No information available	No information available				
	Initial boiling point and boiling range:	No information available	No information available				
	Flash point:	No information available	No information available				
	Evaporation rate:	No information available	No information available				



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Trade name:					
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2

	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density:		No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	Soluble in water	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
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:	Hazard from strong reactions with: metals, strong acids, strong oxidizers.				
10.4.	Conditions to avoid:	Direct sunlight. Sources of heat, sparks, ignition, and low temperature.				
10.5.	Incompatible materials:	Metals.				
10.6.	Hazardous decomposition products:	No information available.				

SECTIO	SECTION 11. Toxicological information								
11.1.	Information on toxicological effects								
	Acute toxicity:								
Route o	f exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results			



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Trade name:		FERRI R	EAGENT, VERHOE	FF B		
Product code:	FRV-OT-X**	Date of compilation	27 June 201	.9 Ve	ersion:	2
Oral:	No information available	-	No information available	No information available		-
Dermal:	No information available	-	No information available	No infor		-
Inhalation:	No information available	_	-	-		-
Specific ta	rget organ toxicity – s	ingle evnosure (ST	OT SEV			
Specific to	Specific		Target org	an		Note
Oral:	No information avai		No information av		_	
Dermal:	No information avai	lable	No information av	/ailable	-	
Inhalation:	No information avai	lable	No information as	/ailable	-	
Irritation a	nd corrocion					
Intation a		ne Spec	ies Evaluation	) Me	ethod	Note
	Exposure tir		ies Evaluation	n Me	thod	Note No
Skin corrosion/irritation:	Exposure tir Causes serious s burns.		ies Evaluation	n Me	ethod	Note No information available
Skin	Exposure tir Causes serious s burns.	kin -	ies Evaluation	n Me	ethod	No information
Skin corrosion/irritation: Serious eye damage/irritation	Exposure tir Causes serious s burns. Causes serious e damage.	kin -	ies Evaluation	n Me	ethod	No information available No information
Skin corrosion/irritation: Serious eye damage/irritation  Sensitizatio	Exposure tir Causes serious s burns.  Causes serious e damage.	kin - ye -	ies Evaluation	n Me	ethod	No information available No information
Skin corrosion/irritation: Serious eye damage/irritation  Sensitization  Dermal exposure: Inhalation	Exposure tir Causes serious s burns. Causes serious e damage.	kin - ye -	ies Evaluation	n Me	ethod	No information available No information
Skin corrosion/irritation: Serious eye damage/irritation  Sensitization  Dermal exposure:	Exposure tir Causes serious s burns.  Causes serious e damage.  On No information avai	kin - ye -	ies Evaluation	n Me	ethod	No information available No information
Skin corrosion/irritation: Serious eye damage/irritation  Sensitization  Dermal exposure: Inhalation exposure:	Exposure tir Causes serious s burns.  Causes serious e damage.  On No information avai s related to the physical	ye - lable	- - exicological character	- -		No information available No information available
Skin corrosion/irritation: Serious eye damage/irritation  Sensitization  Dermal exposure: Inhalation exposure:  Symptoms	Exposure tir Causes serious s burns.  Causes serious e damage.  On No information avai s related to the physical	ye - lable lable al, chemical and to	-	- -		No information available No information available
Skin corrosion/irritation: Serious eye damage/irritation  Sensitization  Dermal exposure: Inhalation exposure:  Symptoms  Oral exposure:	Causes serious s burns.  Causes serious e damage.  On  No information available related to the physical Digestive tract irritar	ye - lable lable al, chemical and to	- - exicological character	- -		No information available No information available
Skin corrosion/irritation: Serious eye damage/irritation  Sensitizatio  Dermal exposure: Inhalation exposure:	Causes serious e burns.  Causes serious e damage.  On  No information avaitable related to the physical esophagus and storn Causes burns.  Damage to mucous	ye - lable al, chemical and to tion (nausea, diarrinach perforation.	- - exicological character	istics and digest	ive tract,	No information available No information available



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Trade name:	<u></u>				
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2

	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	<b>-</b>
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	<b>-</b>
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	<b>-</b>
Chronic dermal	No information available	No information available	No information available	No information available	No information available	<b>-</b>
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

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



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Trade name:		FERRI REAG	ENT, VERHOEFF B		
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2

Chroni	Chronic dermal No information available Chronic inhalation No information available		)	No information available	-		
Chroni			le No information available -				
	CMR effects (	carcinogenicity; mutagenicity	; rep	roductive toxicity)			
	Carcinogenici	ty:	No	information available			
	Mutagenicity	in-vitro:	No	information available			
	Genotoxicity:		No	information available			
	Mutagenicity in-vivo:		No information available				
	Germ cell mutagenicity:		No information available				
	Reproductive toxicity:		No information available				
	Summary of evaluation of the CMR properties:		No information available				
11.2.	Practical expe	eriences:					
	Classification observations:		No information available				
	Other observa	Other observations:		No information available			
11.3.	General notes	5:					
	-						

SECTION 12. General notes:						
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	-	-	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	-	-	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	-	-	No information available	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	_	-	No information available	-



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				FERRI REA	GENT,	VERH	OEFF B			
: F	FRV-OT-X**				27	June 2	2019	Version:	2	
	EC <sub>50</sub>	48 hou	ırs -		_		No information available		_	
plants	IC <sub>50</sub>	72 hou	ırs -		_		No inform available	ation	_	
ns	-	-	-		_		-		-	
tence a	nd degradal	oility								
		half-lives		Meth	od		Е	valuation		Note
No i	nformation a	available	No	information	availa	ble	No inform	ation avai	lable	-
No i	nformation a	available	No	information	availa	ble	No inform	ation avai	lable	-
No i	nformation a	available	No	information	availa	ble			lable	-
No i	nformation a	available	No	No information available		ble	No information available		-	
aradati	on									
		c)		Method		Fva	luation	1 1 1 1 1 1 1	Note	
								No		rmatior
			ino information available ava							
			t (log Ko	ow)						
Conc	entration	рН	°C	Metho	od	E	valuation		Note	
		ation -		No infor			information No able avail		information lable	
ncentra	tion factor (	BCF)								
				Method		Eva	luation		Note	
n N	Species  No information available		No information available			No information available		No info	No information available	
	plants  ms  tence a ic degra  No i No i No i No i availal	plants IC <sub>50</sub> ms -  tence and degradal ic degradation  Degradation  No information a No information available  cumulative potential includes potential includes partition of Concentration  No information available  ncentration factor (	plants IC <sub>50</sub> 72 hours    IC <sub>50</sub> 72 hours   IC <sub>50</sub> 72 hours   Tence and degradability	EC <sub>50</sub> 48 hours -  plants IC <sub>50</sub> 72 hours -  ms  tence and degradability  ic degradation  Degradation half-lives  No information available  Concentration  Time (days)  No information  available  Concentration pH  Concentration pH  Concentration pH  Concentration factor (BCF)	EC <sub>50</sub> 48 hours -  plants IC <sub>50</sub> 72 hours -  ms  tence and degradability ic degradation  Degradation half-lives Meth No information available No information  Time (days) Method  No information available  Concentration pH °C Method  No information available  No information available  Concentration pH °C Method  No information available  No information available  No information available	EC <sub>50</sub> 48 hours	EC <sub>50</sub> 48 hours	EC50	EC <sub>50</sub>	EC <sub>50</sub> 48 hours No information available   No information available



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Trade name:		FERRI REAGI	ENT, VERHOEFF B		
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2

	Value	Dose	Exposure						
			time	Species	N	Method	Evaluation	on No	
Chronic to	oxicity on fish	LC <sub>50</sub>	No information available			rmation ilable	No informatio available	n -	
rustacea	oxicity on ı (Daphnia)	EC <sub>50</sub>	No information available	No information available		rmation lable	No informatio available	n -	
L2.4. I	Mobility in soil								
I	Known or pred	licted distributi	on in environmer	ıtal compartı	ments:				
I	No information	n available							
9	Surface tension	า:	:						
	Value	°C	Concentration	on	Method		Note		
i	intormation intormation		n No info availab	ormation -					
	Adsorption / d	occuption							
Fransport	t i	coefficient s constant	log Kow	Evaporation	on rate	Metl	nod	Note	
Soil-wate	No available	information	No information available	No information available		No info available	rmation -		
Water-air	No available	information	No information available			No information available			
Soil-air	No available	information	No information available	No infor available	No information available No information available		rmation -		
L2.5. I	Results of PBT	and vPvB asses	ssment						
I	No informatio	n available							
L2.6. (	Other adverse	effects							
	No information								



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Trade name:	FERRI REAGENT, VERHOEFF B					
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2	

13.1.	Waste treatment method	ds .			
13.1.1.	Product/Packaging dispo				
	Submit for disposal to th Protection.	e legal person authorized by the Ministry of Environmental and Nature			
13.1.2.	Waste codes/waste design	gnations according to Low:			
	15 01 10*: packaging that substances	t contains residual hazardous substances or is contaminated with hazardous			
13.1.3.	Waste treatment – releva	int information:			
	No information available				
13.1.4.	Sewage disposal – releva	nt information:			
	Waste must not be disposed of into the sewage system.				
13.1.5.	1.5. Other disposal recommendations:				
	authorized by the minist	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 ectors authorized by the ministry in charge. Do not dispose of in places where			
13.1.6.	Relevant Community pro	visions:			
		gement Act, Ordinance on Waste Management, Regulation on categories, f waste with waste catalog and list of hazardous waste			
SECTIO	N 14. Transport information	an an			
SECTIO	Transporting/shipment by				
UN num		Not subject to transport regulations			
	per shipping name:	-			
	rt hazard class(es):	-			
Packing group:		-			
Environmental hazards:		-			
Special	orecautions for user:	-			
	Transporting/shipment by	rail (RID)			
UN num	ber:	Not subject to transport regulations			
UN prop	per shipping name:	-			
Transpo	-				



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

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Trade name:		FERRI REAG	ENT, VERHOEFF B		
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2
Packing group:					

Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by inland	waterways (ADN)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	/IDG)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	
Transporting/shipment by air (ICA	40-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

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



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

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Trade name:		FERRI REAG	ENT, VERHOEFF B		
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2

		EC Regulation No. 1906/2007 and Directive (EC) No. 1272/2008 of the European Parliament and Council;	
	Other EU regulations:	The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council regarding registration, evaluation, authorization and restriction of chemicals (REACH);	
		EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;	
		EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals;	
		EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;	
		Directive 2008/98/EC of the European Parliament and Council from 19 November 2008 about waste and repeal of certain Directives	
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (quideline)		
	National regulation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Transport of Hazardous Substances Act	
15.2.	Chemical safety assessmen	t	
	None		

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



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

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Trade name:		FERRI REAG	ENT, VERHOEFF B		
Product code:	FRV-OT-X**	Date of compilation:	27 June 2019	Version:	2

	<b>H</b> :	302 314 315 319 412	Harmful if swallowed. Causes severe skin burns and eye damage. Causes skin irritation. Causes very serious eye irritation. Harmful to aquatic life with long lasting effects.
16.6.	16.6. Training advice:		-
16.7. Further information:		ther information:	** "X" in the product code marks different volumes (different packagings of the product)  We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

Α	٨	ı	N	П	F	Y	1	
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**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 



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Trading name:		IODINE SOLUTION, VERHOEFF C	<u> </u>
Product code:	JODV-OT-X**	Date of compilation: 01 July 2019.	Version: 2

SECTI	ON 1 IDENTIFICATION	OF THE SU	BSTANCE/MI	XTURE AND OF THE COMPANY/UNDERTAKING	
1.1.	Product identifier				
	Trading name:	IODINE S	OLUTION, VE	RHOEFF C	
	Chemical name:	-			
	Catalogue number:	JODV-OT	-X**		
1.2.	Relevant identified use	es of the sul	ostance or mi	xture and uses advised against	
	Uses:		For use w	ith Verhoeff kit.	
	Uses advised against:		Only the i	dentified uses are advised.	
	Reason why uses advi	The product is intended for use only as an <i>in vitro</i> diagnostic ised against: medical device, registered at the Agency for Medicinal Product Medical Devices and there is no reason to use it for other p			
1.3.	Details of the supplier	of the safe	ty data sheet		
	Supplier:		BioGnost Ltd.	oGnost Ltd.	
	Address:		Medjugorska 59, Zagreb +385 1 2409997 +385 1 2404039 msds@biognost.hr		
	Telephone number:				
	Fax no.:				
	e-mail of competent p	erson:			
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection ar	National Protection and Rescue Direction Medical information:		112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2 HAZARDS INFORMATION			
2.1.	Classification of the substance or mixture			
2.1.1.	Classification (REGULATION (EC) No. 1272/2008 (CLP)			
	Hazard class and category	Hazard class and category code: Hazard statements*:		
	Not identified as hazardous substance			
2.1.2.	Additional information			
	-			
*For ful	ll text of Hazard- and EU Hazard-sta	ntements: see S	ection 16	
2.2.	Classification according to EC Dire	ective Nr. 1272/	2008 CLP)	
	Product identification:	IODINE SOLU	TION, VERHOEFF C	
	Identification number:	Identification number: -		
	Authorization no.: -			
	Hazard pictograms:	azard pictograms: -		
	Signal word:	-		



## BIOGNOST® According to Regulation (EC) No. 1907/2006

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Trading name:		IODINE SOLUTION,	IODINE SOLUTION, VERHOEFF C		
Product code:	JODV-OT-X**	Date of compilation:	01 July 2019.	Version: 2	

	Hazard statements:	-
	Precautionary statements:	-
	Further information:	-
2.3.	Other hazards	
	-	

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS						
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)		
-	-	-	Contains no hazardous substances	-		

SECTI	ON 4 FIRST AID MEASURES				
4.1.	Description of first aid measu				
	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:  Following eye contact:  Following ingestion:  Self-protection of the first aider:		Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.		
			Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.  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.		
			Treat symptomatically.		
4.2.	Most important symptoms and effects, both acute and delayed				
	FOIIOWING INDAISTION:		ording to our findings, chemical, physical and toxicological properties of substance have not been entirely tested.		
	Following skin contact:		ording to our findings, chemical, physical and toxicological properties of substance have not been entirely tested.		
	Following eye contact:		ording to our findings, chemical, physical and toxicological properties of substance have not been entirely tested.		
	Following ingestion:	According to our findings, chemical, physical and toxicon the substance have not been entirely tested.			
4.3.	Indication of any immediate medical attention and special treatment needed				



# BIOGNOST® According to Regulation (EC) No. 1907/2006

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Trading name:	IODINE SOLUTION, VERHOEFF C				
Product code:	JODV-OT-X**	Date of compilation:	01 July 2019.	Version: 2	

SECTIO	SECTION 5 FIREFIGHTING MEASURES					
5.1.	Extinguishing media					
	Suitable extinguishing media: Water spray, dry powder, CO <sub>2</sub> or alcohol-resistant foam					
	Unsuitable extinguishing media: No information available					
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					
	Do not contaminate the environment with extinguishing media.					

SECTIO	ON 6 ACCIDENTAL RELEASE M	EASURES			
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne	el			
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, Protection and Rescue Directo	drainage system and waterways. In case of large spillage contact National orate (NPRD) on 112.			
6.3.	Methods and material for cor	ntainment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials			
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using 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.			
6.3.3.	Other information:	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.			
6.4.	Reference to other sections				



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Product code:	JODV-OT-X**	Date of compilation:	01 July 2019.	Version: 2

See Section 7 for information on safe handling.	
See Section 8 for information on personal protective equipment.	
See Section 13 for disposal information.	

SECTIO	ON 7 HANDLING AN STORAGE	
7.1.	Precautions for safe handling	
7.1.1.	Protection measures	
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.
	Measures to prevent aerosol and dust generation	on: Secure proper ventilation.
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.
	Other measures:	-
7.1.2.	Advice on general occupational hygiene:	
	Do not eat, drink or smoke in the workspace. The	noroughly wash hands after work and before eating.
7.2.	Conditions for safe storage, including any incor	npatibilities
	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:	-

SECTI	SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION							
8.1.	Control parameters							
	Substance	CAS No		exposure limit term values	Biological limit values			
			ppm	mg/m³	_			



										Page 5 of 15
Trading na	me:				IODIN	IE SOLUT	ION	I, VERHO	DEFF C	
Product co	de:	JODV-C	DV-OT-X** Date of		f compila	tion	: 01 Ju	ly 2019.	Version: 2	
				i						1
-			-			-		-	No infor	mation available
Substance	_									
name:							I			
EC No:	-		CAS No:	-						
DNEL										
						lustrial				1
Route of			Acute ect local		Acut			Chror effect I		Chronic
exposure: Oral		ene	ect local		ffect sys	temic		enecti	OCai	effect systemic
Inhalation		-		-			-			-
		_			_			-		
Dermal				ility cor	rosivity:	_	_		1 -	
Critical priys	sicai pai	arrieters.	Solubility, lia	IIIIIabi		nsumer		<u> </u>		
Route of Acute				Acute			Chronic		Chronic	
110010		ect local	effect system			effect local			effect systemic	
Oral	-			-	-		-			-
Inhalation		-		-			-			-
Dermal		-		-			-			-
PNEC				L						
Environmen	ital prot	ection tar	get			PNEC				
Fresh water						No infor	matio	on availab	le	
Freshwater	sedime	nts			No information available					
Marine wate	er					No infor	matic	on availab	le	
Marine sedi	ments					No infor	matio	on availab	le	
Food chain						No infor	matio	on availab	le	
Microorgan	isms in	sewage tr	eatment	-		No infor	matic	on availab	le	
Soil (agricul	tural)				No information available					
Air						No infor	matic	on availab	le	
8.2.	Exposi	ure contro	ls							
8.2.1.	Engine	ering mea	asures							
	measu	-	ure related vent exposu d uses:							Use personal protective the workspace.
	Structi		ures to preve	ent	No info	rmation av	/ailak	ole		



# BIOGNOST® According to Regulation (EC) No. 1907/2006

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Trading name:		IODINE SOLUTION, VERHOEFF C				
Product code:	JODV-OT-X**	Date of compilation:	01 July 2019.	Version:	2	

	Organisational measures to prevent exposure:	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.			
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) or visor.			
8.2.2.2.	Skin protection				
	Hand protection:	Protective gloves must be according to the EU Directive 2016/425/EEC and standard EN 374.  Glove material: nitrile rubber  Glove thickness: ≥0.50 mm			
		Break through time: >480 min			
	Other skin protection:	Wear antistatic clothing made of natural fibers (such as cotton) with long sleeves (EN 13034), and shoes that cover the entire foot (EN 10335).			
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter type "ABEK" (EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No information available			
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Section 6			
	Structural measures to prevent exposure:	Use modern equipment.			
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.			
	Technical measures to prevent exposure:	See Section 6			

SECTION	SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES					
9.1.	Information on basic physical and chemical properties					
		Method				
	Physical state:	liquid	No information available			
	Color:	dark brown	No information available			
	Odor:	characteristic	No information available			
	Odor threshold:	No information available	No information available			
	pH:	No information available	No information available			
	Melting point / freezing point;	No information available	No information available			
	Initial boiling point and boiling range:	No information available	No information available			



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T		TODINE COLUTION	VEDITORIE C	· uge / c	J. <u>23</u>
Trading name:	IODINE SOLUTION, VERHOEFF C				
Product code:	JODV-OT-X**	Date of compilation:	01 July 2019.	Version:	2

	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapor pressure:	No information available	No information available
	Vapor density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	Soluble in water (20 °C)	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available
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:	No information available.			
10.4.	Conditions to avoid:	No information available.			
10.5.	Incompatible materials:	No information available.			
10.6.	Hazardous decomposition products:	No information available.			

SECTION 11 TOXICOLOGICAL INFORMATION								
11.1. Information on toxicological effects								
Acute toxicity:								
Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results			
Oral exposure:	No information available	_	LD <sub>50</sub>	_	_			



Trading name:		I	DDINE SOLUT	TON, VER	HOEFF C		
Product code:	JODV-OT-X**	Da	ate of compila	tion: 01	July 2019.	Version:	2
Dermal exposure	No information	on _		LD <sub>50</sub>	-		-
Inhalation exposure:	No informatio available	on _		LC <sub>50</sub>	-		_
Specific	target organ toxicit	ry single over	ocuro (STOT SE)	١•			
Specific		Specific effects	Usule (3101 3L)	Target	organ	No	te
Oral exposure:		ation available	No	informatio		-	
Dermal exposure		ation available		informatio		_	
Inhalation expos		ation available		informatio		_	
Initial action expos	are. INO IIIIOIIIII	adon available	NO	mormado	ii avanabic		
Respira	tory irritation:	N	lo information a	available			
	,		<u> </u>				
Irritatio	n and corrosion						
	Exposure	time S	pecies Ev	aluation	Method	Note	
Skin irritation:	-	_	-				
Eye irritation:	-	-	-				
,	l l	!	!				
Sensitiz	ation						
Dermal exposure	e: No information	available					
Inhalation exposure:	No information	available					
Sympto	ms related to the pl	nysical chemic	al and toxicolo	nical charac	toristics		
Oral exposure:	According to		chemical, physi			perties of the	substanc
Dermal exposure	j	o our findings, en entirely test	chemical, physi ed.	cal and tox	icological pro	perties of the	substand
Inhalation expos	IIro.	o our findings, en entirely test	chemical, physi ed.	cal and tox	icological pro	perties of the	substanc
Eye exposure:	_	o our findings, en entirely test	chemical, physi ed.	cal and tox	icological pro	perties of the	substanc
Repeate	ed dose toxicity (sub	oacute, subchro	onic, chronic)				
<sub> </sub> - <b> </b>	Dose	Exposure time	Species	Method	Evalu	ation Not	:e
	No information	No	No	No	No		



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Trading name:		IODINE SOLUTION, VERHOEFF C			
Product code:	JODV-OT-X**	Date of compilation:	01 July 2019.	Version: 2	

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

Specific target	organ toxicity – repeated exposure (S	TOT RE):	t organ			
	Specific effects	Target organ				

Note Subacute oral No information available No information available Subacute dermal No information available No information available Subacute inhalation No information available No information available Subchronic oral No information available No information available Subchronic dermal No information available No information available Subchronic inhalation No information available No information available Chronic oral No information available No information available \_ Chronic dermal No information available No information available Chronic inhalation No information available No information available

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)						
Carcinogenicity:	No information available					
Mutagenicity in-vitro:	No information available					



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	1			gc =c .		_
Trading name:	IODINE SOLUTION, VERHOEFF C					
Product code:	JODV-OT-X**	Date of compilation:	01 July 2019.	Version:	2	

	Genotoxicity:	No info	No information available				
	Mutagenicity in-vivo:	No info	No information available				
	Germ cell mutagenicity:	No info	No information available				
	Reproductive toxicity:	No info	ormation available				
11.2.	Summary of evaluation of the Practical experiences:	ne CMR prop	perties: -				
	Remarks relevant for classifi	cation:	No information available				
	Other remarks:		No information available				
11.3.	General notes:						
	_						

#### **SECTION 12 ECOLOGICAL INFORMATION:**

101	<b>-</b>	
12.1.	Toxicity	

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



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

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Trading name:		IODINE SOLUTION, VERHOEFF C			
Product code:	JODV-OT-X**	Date of compilation:	01 July 2019.	Version:	2

3											
		ce and degrad	ability								
Abio		egradation	-IF I:			N 4 a t la a al			Falati		Niete
		Degradation h	ait-lives			Method			Evaluatio	on	Note
Marine water	No	No information available		No infor	mation availab	le	No inform	nation av	ailable	-	
Fresh water	No	No information available			No infor	mation availab	le	No inform	nation av	ailable	-
٩ir	No	o information a	vailable		No infor	mation availab	le	No inform	nation av	ailable	-
Soil	No	o information a	vailable		No infor	mation availab	le	No inform	nation av	ailable	-
Bioc	degra	dation									
% Degradati		Time (da	ys)		М	ethod	*** **********************************	Evaluatio	on	N	ote
No informati available	on	No info	rmation		o inform vailable	nation		o information	on	No informa available	tion
12.3. Bioa	accum	nulative potent	ial								
Part	ition	coefficient: n-c	ctanol/	wate	er (log Ko	ow):					
Value	Co	oncentration	рН		°C	Method		Evalu	Evaluation Note		Note
-	No avai	information lable	-		No information available		1	No information available		-	
Bioc	conce	ntration factor	(BCF)								
Value		Spec			<u> </u>	Method		Evaluation	on	N	lote
No informati available	information No informatio		ion	on No information N			No information available		No information available		
Chro	onic e	ecotoxicity									
Va	lue	Do	ose		osure ime	Species		Method	Eva	luation	Note
Chronic toxic	city or	n fish LC <sub>50</sub>	i		mation able	No information available		o formation railable	No information available		-



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Tradir	ng nam	ie.	IODINE SOLUTION, VERHOEFF C							
	ct cod		ODV-OT-X**		of compila		1 July 2		Version:	2
	ic toxici cea ( <i>Da</i>	-	EC <sub>50</sub>	information	No information available	No inform availal	nation	No inform available	ation _	
12.4.	Mob	ility in sc	oil							
	Knov	vn or pre	edicted distributi	on in environme	ental compa	rtments:				
	No information available									
	Surfa	ice tensi	on:					ı		
	V	'alue	°C	Concentrat	tion Metho		od		Note	
	No information available		No information available	No informati available		No information available		-		
	Adso	rption /	desorption							
Transp	A/D coefficient Henry's constant		log Kow	Evapora	Evaporation rate		lethod	N	ote	
Soil-wa	Soil-water			No information available		No information available				
Water-	-air	No available	information	No information available			No information available		-	

information No information No information

available

available

No information

available

12.5.	Results of PBT and vPvB assessment

No information available

#### 12.6. Other adverse effects

No

available

Soil-air

No information available

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal:

Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.



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Trading name:		IODINE SOLUTION, VERHOEFF C			
Product code:	JODV-OT-X**	Date of compilation:	01 July 2019.	Version:	2

13.1.2. Waste codes/waste des	Waste codes/waste designations according to Law:						
No information availab	le						
13.1.3. Waste treatment – rele	vant information:						
No information availab	le						
13.1.4. Sewage disposal – rele	vant information:						
Waste must not be disp	posed of into the sewage system.						
13.1.5. Other disposal recomm	nendations:						
authorized by the minis	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 p	rovisions:						
-							
SECTION 14 TRANSPORT INFOR	RMATION						
Transporting/shipment b	y road (ADR)						
UN number:	Not subject to transport regulations.						
UN proper shipping name:	-						
Transport hazard class(es):	-						
Packing group:	-						
Environmentally hazardous:	-						
Special precautions for user:	-						
Transporting/shipment b	y rail (RID)						
UN number:	Not subject to transport regulations.						
UN proper shipping name:	-						
Transport hazard class(es):	-						
Packing group:	-						
Environmentally hazardous:	-						
Special precautions for user:							
Inland waterway transport (ADN)							
UN number:	Not subject to transport regulations.						
UN proper shipping name:	-						
Transport hazard class(es):	-						
Packing group:	ng group: -						



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Product code:	JODV-OT-X**	Date of compilation:	01 July 2019.	Version:	2

Environmentally hazardous:	-			
Special precautions for user:	-			
Transporting/shipment by	sea (IMDG)			
UN number:	Not subject to transport regulations.			
UN proper shipping name:	-			
Transport hazard class(es):	-			
Packing group:	-			
Environmentally hazardous:	-			
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 prod	duct is not subject to classification.			

SECTI	ECTION 15 REGULATORY INFORMATION				
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations				
	Authorization and/or restrictions of use				
	Authorizations:	-			
	Restrictions:	-			
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;  The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);  EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;  EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;  EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;  Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives			



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Trading name:		IODINE SOLUTION, VERHOEFF C			
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	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)					
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2.	Chemical safety assessmen	t				
	None					

SECTION	ON 16 Other information				
16.1.	Indication of changes:	-			
16.2.	Abbreviations and acronyms:	PBT vPvB LD <sub>50</sub> LC <sub>50</sub> STOT-SE	Stable, bioaccumulative and toxic Strongly stable and strongly bioaccumulative. Lethal dose, 50% Lethal concentration, 50% Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			
16.4.	16.4. Classification and procedure us 1272/2008 (CLP)		he classification for mixture according to Regulation (EC)		
Classif	ication	Classification procedure			
-	-	-			
16.5.	Relevant H statements (number	r and full text)			
	H: -				
16.6.	Training advice:				
		** "X" in the product code marks different volumes (different packagings of the product)			
16.7.	į	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

#### ANNEX:

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT** 



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Trading name:	R	REAGENT FOR DIFFERENTIATION, VERHOEFF			
Product code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3

SECTIO	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	REAGENT F	or differ	R DIFFERENTIATION, VERHOEFF	
	Chemical name:	-			
	Catalogue number:	RDV-OT-X*	*		
1.2 Relevant identified uses of the sub			tance or n	nixture and uses advised against	
	Uses:		Reagent	for differentiation.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advi	vised against: medical device, registered at the Agenc		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:		BioGnos	t Ltd.	
	Address:	dress:		orska 59, Zagreb	
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2	2404039	
	e-mail of competent p	person:	msds@b	<u>piognost.hr</u>	
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection a	nd Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification							
2.1	Classification of the substance or mixture							
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)							
	Hazard class and category code: Hazard statements*:							
	Not identified as hazardous sub	ostance.	-					
2.1.2.	Additional information							
	-							
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16					
2.2	Label elements							
	Product identification:	REAGENT FOR I	DIFFERENTIATION, VERHOEFF					
	Identification number:	-						
	Authorization number:	-						
	Hazard pictograms:	-						



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Trading name:	REA	REAGENT FOR DIFFERENTIATION, VERHOEFF			
Product code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

SECTION 3. Co	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
10025-77-1/ 600-047-2/ -	-	< 2 %	ferric chloride hexahydrate	Acute Tox. 4; H302 Skin Irr. 2; H315 Eye Dam. 1; H318				

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



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Trading name:	REA	REAGENT FOR DIFFERENTIATION, VERHOEFF			
Product code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3

	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.
4.3	Indication of any immediate media	cal attention and special treatment needed
	-	

SECTI	SECTION 5. Firefighting measures				
5.1	Extinguishing media	Extinguishing media			
	Suitable extinguishing media:	water spray, dry powder, CO <sub>2</sub> or alcohol resistant foam			
	Unsuitable extinguishing media:	Water with full jet			
5.2	Special hazards arising from the sub	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 co	ompressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with v	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.			

SECTIO	ECTION 6. Accidental release measures				
6.1	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods: Evacuate members of all non-essential personnel and those				
	Emergency procedures: Mark the area using proper signs.				
6.1.2.	For emergency responders:				
	Use protective equipment; in c (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 containment and cleaning up				
6.3.1.	Bunding, covering of drains; capping procedures:  Sand protective barrier or barriers made of similar materials.				



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Trading name:		REAGENT FOR DIFFERENTIATION, VERHOEFF			
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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 and involved materials with water.	
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).	
6.4	Reference to other sections		
	See Section 7 for information on safe handling.		
	See Section 8 for information on personal protection equipment.		
	See Section 13 for disposal in	formation.	

SECTIO	SECTION 7. Handling and storage						
7.1	Precautions for safe handling						
7.1.1.	Protection measures						
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.				
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.				
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.				
	Other measures:		Protect against electrostatic charges.				
7.1.2.	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 incom	npatibilities					
	Technical measures and storage conditions:	well ventila	htly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.				
	Packaging materials:	Manufactu	ırer's original packaging.				
	Requirements for storage rooms and vessels:	Keep away tightly clos	r from food and drink. Keep the containers sed.				
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no dr that directly leads into sewage system. Secure proper ventilation.					
	Further information on storage conditions:	and do no	ice the unused material in the storage room t use empty containers for storing other Do not store with incompatible materials on 10).				



Recommendations:

Soil (agricultural)

Air

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

					Page 5 01 1	0
Trading	name:		REAGENT FOR DIFFERENTI	ATION, VERHOEF	F	
Product	t code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3
7.3	Specific 6	end use(s)				

Industrial sector specific solutions:					-	_						
SECTION 8. Expo	sure (	contro	ols/perso	nal pr	otect	tion						
8.1 Control	param	eters										
Substance		CA				ccupational exposure limit values/short term values			Biological limit values			
							ppr	m	n	ng/m³		
-				-			-			-	-	
Substance name:	Substance name: -											
EC No:	-		CAS No	:	-							
DNEL	DNEL											
	Industrial											
Route of		Acu	te		Acut	e			Ch	ronic		Chronic
exposure:	(	effect	local	effe	ct sys	temic	2		effe	ct local		effect systemic
Oral	-			-		-			-			
Inhalation	-			-						-		
Dermal	-			-			-			-		
Critical physical p	arame	eters: s	olubility,	flamm	abilit	y, cor	ros	sivity:		-		
						Co	nsu	ımer				
Route of		Ac	ute		Acut	:e			Ch	ronic		Chronic
exposure:		effec	t local	effe	ct sys	stemic	mic effect local			effect systemic		
Oral	-			-				-				-
Inhalation		_		-				-				-
Dermal				-				-				-
PNEC												
Environmental pr	otectio	on targ	get				PNEC					
Fresh water					no information available							
Freshwater sediments					no information available							
Marine water					no information available							
Marine sediments	S						no	inform	ation	available		
Food chain							no information available					
Microorganisms in sewage treatment							no information available					

no information available

no information available



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF				
Product code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3

8.2	Exposure controls			
8.2.1.	Appropriate engineering controls			
	Substance/mixture related measurevent exposure during identifie		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.	
	Structural measures to prevent exposure:		In accordance with Section 7.	
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.	
	Technical measures to prevent ex	кроsure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.	
8.2.2.	Personal protection equipment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection	<b>3</b>		
	Hand protection:		otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min	
	Other skin protection:	footwe entire t impern	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.	
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No info	ormation available	
8.2.3.	Environmental exposure controls			
	Substance/mixture related measures to prevent exposure:	See Se	ction 6	
	Structural measures to prevent exposure:	Use mo	odern equipment.	
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.		



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Trading name:	REA	=			
Product code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3

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

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

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



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

	oxicological informati							
	toxicity:	Hects						
Route of exposure:	Method	Species	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>		Exposure time	Results		
Oral:	No information available	rat		LD <sub>50</sub>	-	450 mg/kg (ferric chloride hexahydrate)		
Dermal:	No information available	_			_	-		
Inhalation: No informatio available		_				-		
Specifi	c target organ toxicity -	- single expo	osure (STO	Γ SE):				
·	Specific	effects		Target o	organ	Note		
Oral:	No information av	/ailable	No	o information	available	-		
Dermal:	No information av	/ailable	No information available -					
Inhalation:	No information av	/ailable	No information available -					
Aspirat	ion hazard:	N	o informat	ion available.				
Irritatio	on and corrosion							
	Exposure t	ime	Species	Evaluati	on Method	Note		
Skin corrosion/irritat	ion:	-		-	-	-		
Serious eye damage/irritatio	on -	-		-	-	-		
Sensiti	zation							
Skin sensitizatio		mation availa	vailable.					
Respiratory sens		mation availa						



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Trading name:	REA	REAGENT FOR DIFFERENTIATION, VERHOEFF							
Product code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3				

Oral exposure:		No informati	on available								
Dermal exposure	e:	No informati	on available								
Inhalation expos	ure:	No informati	on available								
Eye exposure:		No informati	on available								
Repeate	ed dos	se toxicity (sub	acute, subchro	onic, chronic)	,						
		Dose	Exposure time	Species	Method	Evaluation	Note				
Subacute oral		information lable	No information available	No information available	No information available	No information available	-				
Subacute dermal		information lable	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		hronic oral		No information available	No information available	No information available	No information available	-		
Subchronic dermal		information lable	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	-				
Chronic oral	No information available  No information available		No information available	No information available	No information available	No information available	-				
Chronic dermal		information lable	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	-				
Specific	targe	t organ toxicit	<u> </u>	xposure (STOT							
			Specific effec	ts	Target o	rgan	Note				



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Trading name:		REAGENT FOR DIFFERENTIATION, VERHOEFF						
Product code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3			

11.3	General notes:		i						
	Other observa	cions:	No informa	ition available					
	Classification of		No information available						
11.2	Practical exper								
	Summary of properties:	evaluation of the CM	IR Based on a met.	available data, the classifica	ation criteria are no				
	Reproductive t	oxicity:	Based on available data, the classification criteria are not met.						
	Germ cell muta		Based on available data, the classification criteria are not met.  Based on available data, the classification criteria are not met.  Based on available data, the classification criteria are not met.						
	Mutagenicity i								
	Genotoxicity:								
	Mutagenicity i	n vitro:	Based on availa	ble data, the classification c	riteria are not met.				
	Carcinogenicit	y:	Based on available data, the classification criteria are not met.						
	CMR effects (c	arcinogenicity; mutagenicity,	city; reproductive toxicity)						
CHIOTHC	. IIIIIaiatiOii	NO IIIIOIIIIatioii avaliable		NO IIIIOITIIatioii available					
	dermal inhalation	No information available  No information available		No information available  No information available	-				
Chronic		No information available		No information available	_				
	onic inhalation	No information available		No information available	-				
	onic dermal	No information available		No information available	-				
Subchro	onic oral	No information available		No information available	-				
Subacu	te inhalation	No information available		No information available	-				
Subacu	te dermal	No information available		No information available	-				

SECTION 12. Ecologic	cal informat	ion								
12.1 Toxicity										
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC <sub>50</sub>	96 hours	fish	No information available	No information available	21 mg/l (ferric chloride hexahydrate)				
Crustacea:	EC <sub>50</sub>	48 hours	crustacea	No information available	No information available	33.4 mg/l (ferric chloride hexahydrate)				



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Trading name:	REA	REAGENT FOR DIFFERENTIATION, VERHOEFF							
Product code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3				

Product code: F		RDV-OT-X*	*	Date of compila	tion:	13 Se	pt 2019	Version:	3	
Algae/aquatic plants		IC <sub>50</sub>	4 days	No information available	No infor avail	mation able	No information available	-		
Other organism	าร	-	-	-		_	-	-	-	
Chronic (long-t toxicity	erm)	Dose	Exposure time	Species	Мє	ethod	Evaluation	Note		
ish		LC <sub>50</sub>	96 hours	No information available	No infor avail	mation able	No information available	-		
Crustacea:	Crustacea: E		48 hours	No information available	No No information available available		-			
Algae/aquatic p	olants	IC <sub>50</sub>	72 hours	No information available		o No formation vailable available		-		
Other organism	าร	-	-	-	-		-	-		
		and degrada adation	bility							
		egradation h	nalf-lives	Method	E	Evaluation		Note		
Marine water			availahle	No information available		No information available				
Funda	No information No information									

	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	-

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

12.3	Bioaccumulative potential									
	Octanol-water partition coefficient (log Kow)									
Value	e Concentration	рН	°C	Method	Evaluation	Note				
-	-	-		-	-	-				



											Page 12	01 10
Tradin	ıg name	e:		REA	GENT F	OR E	DIFFER	ENTIAT	ION, V	ERHOEFF	•	
Produ	ct code	: RE	OV-OT-X**		Date o	of co	mpilati	on:	13 Sept	t 2019	Versio	n: 3
	Bioco	ncentrati	on factor (BCF	)								
\	Value		Species	,	М	ethoc	l	Ev	/aluatio	า	No	te
No info	ormatio	n No	inforn	nation	No infor	matic	n	No info	ormatio	n		
availab	ole	ava	ailable		available	)		availab	ole	-		
	Chror	nic ecoto	xicity									
	Chronic ecotoxicity  Value Dose				osure me	Spe	ecies	Method E		Evaluatio	n	Note
Chronic	Chronic toxicity on fish LC		LC <sub>50</sub>	1	information in		mation able	No information available		No informatio available	n -	
	c toxicit		EC <sub>50</sub>	No	1	No	o No Iformation informa			No informatio	n -	
crustac	cea (Dap	hnia)	2050	availa						available		
12.4		ity in soi										
		······································	dicted distribut	ion in e	nvironme	ental c	ompart	ments:				
			n available									
		e tensio alue	n: °C	Co	ncentrati	ion		Metho			Note	
	No	iue	No								NOTE	
		nation ble	information available		informati lable	on	No information available		n	-		
	Adsor	ption / c	lesorption									
Transpo	ort		coefficient 's constant	lo	g Kow	Εν	/aporati	on rate	N.	lethod		Note
Soil-wa	at∆r :	No available	information	No in	formation ble		o inform ailable	nation	No inf availal	ormation ole	_	
Water-	.air	No available	information	No in	formation		o inform	nation	No inf	ormation	-	



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Trading	rading name: REAGENT FOR DIFFERENTIATION, VERHOEFF						
Produc	t code:	RDV-OT-X**	Date of	compilation:	13 Sept 2019	Version:	3
Soil-air	No availa	information able	No information available	No information available	No information available	-	
12.5	Results of	PBT and vPvB asse	ssment				
	Not applic	cable.					
10.5							
12.6		erse effects r relevant informati	on available				
	NO luitilei	Televant informati	on available.				
SECTIO	N 13. Disp	osal consideration	S				
13.1	Waste tr	reatment methods					
	_						
13.1.1.		/Packaging disposa		oi		and Nickens	
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.					and Nature	
	1						
13.1.2.	Waste c	odes/waste designa	ations according to	o Law:			
	15 01 10 substan	5 5	ontains residual h	azardous substanc	es or is contaminate	d with hazardo	ous
13.1.3.	\Masta tr	reatment – relevant	information				
15.1.5.		mation available	imormation.				
	110 111101	That of available					
13.1.4.	Sewage	disposal – relevant	information:				
	Waste m	nust not be dispose	d of into the sewa	ge system.			
13.1.5.						-4	
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.						
13.1.6.	Relevan	t Community provis	sions:				
	Disposa	I must be made acc	ording to official r	regulations.			
SECTIO	N 11 TDAN	ISPORT INFORMA	TION				
SECTIO		ng/shipment by ro					
UN num	-	g, y 10'		o transport regula	tions		
UN proper shipping name:							



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Trading name:		EAGENT FOR DIFFERENTIATION, VERHOEFF			
Product code: F	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3

Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (R	ID)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by sea (IN	MDG)
Transporting/shipment by sea (IN UN number:	MDG)  Not subject to transport regulations
UN number:	Not subject to transport regulations
UN number: UN proper shipping name:	Not subject to transport regulations -
UN number: UN proper shipping name: Transport hazard class(es):	Not subject to transport regulations
UN number: UN proper shipping name: Transport hazard class(es): Packing group:	Not subject to transport regulations
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous:	Not subject to transport regulations
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transport in bulk according to Annex II	Not subject to transport regulations  -  -  -  -  -  -  -
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	Not subject to transport regulations  -  -  -  -  -  -  -
UN number: UN proper shipping name: Transport hazard class(es): Packing group: Environmentally hazardous: Special precautions for user: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Transporting/shipment by air (IC	Not subject to transport regulations  AO-TI/IATA-DGR)
UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:  Environmentally hazardous:  Special precautions for user:  Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:  Transporting/shipment by air (IC UN number:	Not subject to transport regulations  Not subject to transport regulations
UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:  Environmentally hazardous:  Special precautions for user:  Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:  Transporting/shipment by air (IC UN number:  UN proper shipping name:	Not subject to transport regulations  Not Subject to transport regulations - Not subject to transport regulations -
UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:  Environmentally hazardous:  Special precautions for user:  Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:  Transporting/shipment by air (IC UN number:  UN proper shipping name:  Transport hazard class(es):	Not subject to transport regulations  Not subject to transport regulations  Not subject to transport regulations
UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:  Environmentally hazardous:  Special precautions for user:  Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:  Transporting/shipment by air (IC UN number:  UN proper shipping name:  Transport hazard class(es):  Packing group:	Not subject to transport regulations  Not Subject to transport regulations



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Trading name:	RE	GENT FOR DIFFERENTIATION, VERHOEFF			
Product code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3

15.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or rest	rictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19				
		November 2008 on waste and repealing certain Directives				
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2	Chemical safety assessme	ent				
	None					

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



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Trading name:		ATION, VERHOEF	·F		
Product code:	RDV-OT-X**	Date of compilation:	13 Sept 2019	Version:	3

16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)			
Classifi	catior	1	Classification procedure	
_			-	
16.5.	Rele	evant H statements (num	ber and full text)	
	H:	H302	Harmful if swallowed.	
		H315	Causes skin irritation.	
		H318	Causes serious eye damage.	
16.6.	Trai	ning advice:	-	
			** "X" in the product code marks different volumes (different packagings of the product)	
16.7.	16.7. Further information:		We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.	

ANNEX:	Exposure scenario resulting to chemical safety assessment
_	



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Trading name:	g name: SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

SECTION	ON 1: Identification of	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	SODIUM TH	HIOSULFA <sup>*</sup>	TE, 5% SOLUTION	
	Chemical name:	-			
	Catalogue number:	NT5-OT-X*	*		
1.2	Relevant identified use	es of the subs	tance or m	nixture and uses advised against	
	Uses:		For use	with special staining kits.	
	Uses advised against:			identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	of the safety	data shee	t	
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection ar	nd Rescue Dire	ectorate:	112	
	Medical information:		+385 1 2348 342		
	Medical information:			T303 1 2340 342	

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regu	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and catego	ory code:	Hazard statements*:		
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	SODIUM THIOS	ulfate, 5% solution		
	Identification number: -				
	Authorization number:	-			
	Hazard pictograms:	-			



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Trading name:	S	SODIUM THIOSULFATE,	5% SOLUTION		
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

SECTION 3. Con	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)			
7772-98-7/ 231-867-5/ -	-	< 5 %	sodium thiosulphate	not classified			

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



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Trading name:	S	SODIUM THIOSULFATE,	5% SOLUTION	<u> </u>	
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

	Following ingestion:	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.	
4.3	Indication of any immediate medical attention and special treatment needed		
	-		

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

SECTIO	ECTION 6. Accidental release measures				
6.1	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personnel				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Use protective equipment; in ca (see Section 8).	ase 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 conta	Methods and material for containment and cleaning up			
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.			



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).		
6.4	Reference to other sections			
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.			

SECTIO	ON 7. Handling and storage			
7.1	Precautions for safe handling			
7.1.1.	Protection measures			
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.	
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.	
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.	
			Protect against electrostatic charges.	
7.1.2.	Advice on general occupational hygiene:			
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.			
7.2	Conditions for safe storage, including any incompatibilities			
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.	
	Packaging materials:	Manufactu	ırer's original packaging.	
	Requirements for storage rooms and vessels:  Keep away tightly clo		r from food and drink. Keep the containers sed.	
Advices for storage equipment: must be resistant		ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.		
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).		



Soil (agricultural)

Air

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

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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

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

Industrial sector specific solutions: -									
SECTION 8. Expos	ure contr	ols/perso	nal protec	tion					
8.1 Control pa	arameters								
Substance		CAS No			Occupational exposure limit values/short term values			Biological limit values	
					ppm	mg/m³			
-		-					ı		
Substance name:	-								
EC No:	-	CAS No	: -						
DNEL			<u> </u>						
				Inc	dustrial				
Route of	Acı	ıte	Acut	te		Chronic		Chronic	
exposure:	effect	t local effect syste		stemi	ic effect local			effect systemic	
Oral	-		1		-			-	
Inhalation	-		-		-			-	
Dermal -			-	-		:		-	
Critical physical pa	rameters: s	olubility,	flammabilit	ty, coı	rrosivity:	-			
			1	Co	nsumer				
Route of		cute	Acute			Chronic		Chronic	
exposure:	effec	t local	effect sys	stemi	С	effect local		effect systemic	
Oral	-		-		-			-	
Inhalation	-		-		-			-	
Dermal -			-					-	
PNEC									
Environmental protection target				PNEC					
Fresh water				no information available					
Freshwater sediments				no information available					
Marine water				no information available					
Marine sediments				no information available					
Food chain				no information available					
Microorganisms in sewage treatment				no information available					

no information available

no information available



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to preve exposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	rposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (EN 166) or visor in case of lower levels of concentration in air; protective gas mask that covers the entire face in case of higher levels of concentration in air.			
8.2.2.2.	Skin protection	5			
	Hand protection:		otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min		
	Other skin protection:	footwe entire imperr	g everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No information available			
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Section 6			
	Structural measures to prevent exposure:	Use modern equipment.			
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.			



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Trading name:	S	<u> </u>			
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

Technical measures to prevent	See Section 6
exposure:	See Seemon o

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

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



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Trading name:		SODIUM THIOSULFATE,	5% SOLUTION	<u> </u>	
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

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

SECTION 11. T		xicological e							
	toxicity:								
Route of exposure:		1ethod	Species	Do	ose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>	Exp	osure ti	me	Results
Oral:	No in availa	formation ble	_		information lable		-		_
Dermal:	No in availa	formation ble	_		information lable		_		_
Inhalation:	No in availa	formation ble	_		information lable		_		-
Specif	ic target or	gan toxicity -	single exp	osure (S	TOT SE):				
		Specific	effects		Target o	organ			Note
Oral:	No in	formation av	ailable	No information available			-		
Dermal:	No in	formation av	ailable	No information available			-		
Inhalation:	No in	formation av	ailable	No information available -					
1									
Aspira	tion hazard	:	١	No infor	mation available.				
Irritati	on and corr								
		Exposure t	ime	Spec	ies Evaluati	ion	Method		Note
Skin corrosion/irrita	tion:		-		-	_		-	
Serious eye damage/irritati	on -		-		-	-		-	
Sensit	ization								
Skin sensitization	on:	No infor	mation avai	ilable.					
Respiratory sensitization: No information a				ilabla					



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Sympto	ms rela	ated to the ph	ysical, chemic	al and toxicolog	gical characterist	ics	
Oral exposure:		Swallowing n	nay cause disc	omfort in abdo	men and abdom	inal pains.	
Dermal exposure	<b>:</b> :	Allergic perso	ons may displa	y irritation.			
Inhalation expos	ure:	Allergic perso	ons may displa	y irritation afte	r prolonged or re	epeated exposu	re.
Eye exposure:		May cause ey	e irritation.				
Repeate	ed dose	e toxicity (sub	acute, subchro	onic, chronic)			
, -		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	-
Subacute dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Specific	target	organ toxicit	y – repeated e	xposure (STOT	RE):		
			Specific effec	ets	Target o	rgan	Note
Subacute oral		No informa	tion available		No information	n available -	
Subacute derma		No informa	tion available		No informatio	n available -	



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11.3	General notes:						
	Other observa	uons.	No information availa	bie			
	Classification of		No information available				
11.2	Practical exper						
	Summary of properties:	evaluation of the CM	R Based on available d met.	ata, the classifica	ation criteria are no		
	Reproductive t	oxicity.	Based on available data, the classification criteria are not met.				
	Reproductive t		,				
	Mutagenicity <i>i</i> Germ cell muta		Based on available data, the classification criteria are not met.  Based on available data, the classification criteria are not met.				
	Genotoxicity:		Based on available data, the classification criteria are not met.				
	Mutagenicity in vitro:		Based on available data, the classification criteria are not met.				
	Carcinogenicity:		Based on available data, the classification criteria are not met.				
	CMR effects (c	arcinogenicity; mutagenicity	reproductive toxicity)				
Chronic	inhalation	No information available	No inforn	nation available	-		
	dermal	No information available		nation available	-		
Chronic		No information available		nation available	-		
Subchro	onic inhalation	No information available	No inforn	nation available	-		
Subchro	ubchronic dermal No information available		No inforn	nation available	-		
Subchro	onic oral	No information available	No inforn	nation available	-		
Subacu	te inhalation	No information available	No inforn	nation available	-		

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	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	-	



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Trading name:	S	ODIUM THIOSULFATE,	5% SOLUTION		
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Algae/aquatic plants	IC <sub>50</sub>	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	_	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
12.2 Persistence Abiotic deg	and degrada	oility				
	egradation h	alf-lives	Method	Evaluatio	on	Note

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

Biodegradation

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

#### 12.3 Bioaccumulative potential

Octanol-water partition coefficient (log Kow)

Oct	Octanoi-water partition coefficient (log kow)						
Value	Concentration	рН	°C	Method	Evaluation	Note	
-	-	-	-	-	-	-	



											Page 12 of	10
Tradin	ng nam	ne:		SC	DIUM	THI	OSULF	ATE, 5	% SOLU	JTION		
Produ	ct cod	e: N	T5-OT-X**		Date o	f cor	mpilati	on:	05 July	2019	Version:	3
	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	Rioco	ncentrat	ion factor (BCF	<b>)</b>								
	Value	Jiiceiitiat	Species	,	Me	thod		F\	/aluatior	<u> </u>	Note	
	ormatic	on No	· · · · · · · · · · · · · · · · · · ·	nation N	o inforn				ormation		11010	
availab			ailable		/ailable	. ia ci o		availab		-		
			• • •									
	Chro	nic ecoto	xicity	Fyrnasi								
	Val	ue	Dose	Exposu time		Spe	ecies	Meth	nod	Evaluation	n N	ote
				No	١	No		No		No		
Chroni	c toxici	ty on fish	LC <sub>50</sub>	informat available	1	nforn availa	nation	inform availab	1	informatior available	า -	
						No	DIE	No		No		
	ic toxici cea ( <i>Da</i>	-	EC <sub>50</sub>	information ir			nation			information	n -	
Crustac	Lea (Du	рина		available	e a	availa	ble	availab	le	available		
12.4	N4 1		.1									
12.4	1	ility in so		::		.4.1.						
		······································	dicted distribut n available	ion in envi	ironmer	itai c	ompart	ments:				
		ace tensio										
		alue	°C	Conc	entratio	nn -		Metho	nd.		Note	
	No	dide	No								14010	
	infor	mation	information	No inf availat	ormatio ole	n	No inf availal	ormationale	n	-		
	avail	able	available	arana.	J.C		u v u ii u i					
	Δdsc	rntion / a	desorption									
			coefficient									
Transp	ort		's constant	log k	Kow	Ev	aporati	on rate	M	lethod	No	te
Soil-wa	ater	No	information	No infor			inform	nation		ormation	_	
JU11-W	u (C)	available		available			ailable		availak			
Water-	-air	No available	information	No infor			o inform ailable	nation	No inf availab	ormation	_	



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Trading name:			SODIUM THIOSULFATE, 5% SOLUTION						
Produc	t code:	NT5-OT-X**	Date of	compilation:	05 July 2019	Version:	3		
Soil-air	No availa	information able	No information available	No information available	No information available	-			
12.5	Results of	PBT and vPvB asses	ssment						
	Not applic								
12.6		erse effects							
	No further	relevant information	on available.						
SECTIO	N 13. Disp	osal consideration	S						
13.1	Waste tr	reatment methods							
13.1.1.		/Packaging disposa							
	Submit f Protection	•	egal person autho	rized by the Minis	try of Environmental	l and Nature			
	:								
13.1.2.	Waste co	odes/waste designa	ations according to	c Law:					
	15 01 10 substand		ontains residual h	azardous substanc	es or is contaminate	ed with hazardo	ous		
13.1.3.	Wasta tr	reatment – relevant	information:						
13.1.3.		mation available	information.						
13.1.4.	Sewage	disposal – relevant	information:						
	Waste m	nust not be dispose	d of into the sewa	ge system.					
12.15	0.1								
13.1.5.		sposal recommend		46	e. Culturait the automain	+- +			
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.								
13.1.6.	6. Relevant Community provisions:								
	Disposa	must be made acc	ording to official r	egulations.					
SECTIO	N 14 TDAN	ISPORT INFORMA	TION						
JECTIO		ng/shipment by roa							
UN num		g, 5pслс by 100	······	o transport regula	tions				
	per shipping	g name:		<sub>1</sub>					



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION						
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3		

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



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Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

15.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorization and/or rest	trictions of use				
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives				
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-				
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act				
15.2	Chemical safety assessme	ent				
	None					

SECTIO	CTION 16. Other information				
16.1	Indication of changes:	-			
		PBT	Stable, bioaccumulative and toxic		
		vPvB	Strongly stable and strongly bioaccumulative.		
16.2	Abbreviations and acronyms:	LD <sub>50</sub>	Lethal dose, 50%		
		LC <sub>50</sub>	Lethal concentration, 50%		
		TCOJ	Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-			



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	05 July 2019	Version:	3

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

ANNEX: Exposure scenario resulting to chemical safety assessment
-



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Trading name:	FUCHSIN ACID VAN GIESON REAGENT				
Product code:	FAG-OT-X**	Date of compilation:	27 June 2019	Version:	3

SECTIO	ON 1: Identification of t	the substance	e/mixture	and of the company/undertaking	
1.1	Product identifier				
	Trading name:	FUCHSIN A	CID VAN (	GIESON REAGENT	
	Chemical name:	-			
	Catalogue number:	FAG-OT-X*	*		
1.2	Relevant identified use	es of the subst	tance or m	nixture and uses advised against	
	Uses:		For use v	with Van Gieson Trichrome and Weigert-Van Gieson kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advis	ises advised against: medical device, registered at the		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 2409997		
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:	National contact:			
1.4	Emergency telephone	number			
	National Protection ar	nd 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 Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and catego	ory code:	Hazard statements*:		
	Not identified as hazardous sub	ostance.	-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	FUCHSIN ACID	VAN GIESON REAGENT		
	Identification number: -				
	Authorization number: -				
	Hazard pictograms:	-			



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Trading name: <b>F</b>		UCHSIN ACID VAN GIESON REAGENT			
Product code:	FAG-OT-X**	Date of compilation:	27 June 2019	Version:	3

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	-	

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

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



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Trading name: <b>F</b>		UCHSIN ACID VAN GIESON REAGENT			
Product code:	FAG-OT-X**	Date of compilation:	27 June 2019	Version:	3

4.3	Indication of any immediate medical attention and special treatment needed
	-

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

SECTIO	ON 6. Accidental release meas	ures		
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. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).			
6.2	Environmental precautions:			
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.			
6.3	Methods and material for cont	ainment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.		
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.		



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Trading name: <b>F</b>		UCHSIN ACID VAN GIESON REAGENT			
Product code:	FAG-OT-X**	Date of compilation:	27 June 2019	Version:	3

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

SECTIO	ON 7. Handling and storage					
7.1	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.			
	Measures to prevent aerosol and dust generation	on:	Secure proper ventilation.			
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.			
	Other measures:		Protect against electrostatic charges.			
7.1.2.	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 incor	incompatibilities				
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.			
	Packaging materials:	Manufactu	ırer's original packaging.			
	Requirements for storage rooms and vessels:	Keep away	r from food and drink. Keep the containers sed.			
	Advices for storage equipment:	must be re	ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper i.			
	Further information on storage conditions:	Do not place the unused material in the storage and do not use empty containers for storing oth chemicals. Do not store with incompatible mate (see Section 10).				
7.3	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				

#### **SECTION 8. Exposure controls/personal protection**



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Trading name:				FUCHSIN	ACID V	AN GIES	SON R	EAGENT		
Product code:	FAG-01	-X**	Date of o		compila	ompilation: 27 Jun		ıne 2019	Version:	3
8.1 Control pa	arameters									
Substance	)	CA	S No		pational ıes/short	•		Biologi	cal limit values	
				р	pm	mg/	$m^3$			
-			-		-	-		-		
		•		•						
Substance name:	-									
EC No:	CAS No	:	-							
DNEL	÷	1				L				
				Ind	ustrial					
Route of	Acı	ute	Acute			Chronic			Chronic	
exposure:	effect	local	effec	ct systemic	temic effect local		е	effect systemic		
Oral	-		-		-			-		
Inhalation	-		-		-			-		
Dermal	-		-		-			-		
Critical physical par	rameters:	solubility,	flamma	ability, corr	osivity:	-				
				Con	sumer					
Route of	A	cute		Acute		Chron	ic		Chronic	
exposure:	effe	ct local	effec	ct systemic		effect lo	t local		ffect systemic	
Oral	-		-		-			-		
Inhalation	-		-		-			-		
Dermal	-		-		-			-		
PNEC										

11120	
Environmental protection target	PNEC
Fresh water	no information available
Freshwater sediments	no information available
Marine water	no information available
Marine sediments	no information available
Food chain	no information available
Microorganisms in sewage treatment	no information available
Soil (agricultural)	no information available
Air	no information available
	·

8.2	Exposure controls
8.2.1.	Appropriate engineering controls



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	Substance/mixture related measure prevent exposure during identifie		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 prevexposure:	ent	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent ex	xposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
8.2.2.1.	Eye and face protection:	levels	glasses that stick to face (EN 166) or visor in case of lower of concentration in air; protective gas mask that covers the face in case of higher levels of concentration in air.		
8.2.2.2.	Skin protection				
	Hand protection:		otective gloves have to satisfy the specification of ation (EU) 2016/425 and the related standard EN 374.  Glove material: nitrile rubber  Glove thickness: 0.40 mm  Time until perforation: > 480 min		
	Other skin protection:	footwe entire imperr	g everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of meable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	with a	tive full face mask (EN 136) or half mask (EN 140) equipped filter for organic vapors, type "A" (boiling point >65°C) ng to EN 14387) used when concentration levels exceed GVI.		
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ection 6		
	Structural measures to prevent exposure:	Use m	odern equipment.		
	Organisational measures to prevent exposure:	Adapt workpl	the work process to the required working conditions of the lace.		
	Technical measures to prevent exposure:	See Se	ection 6		

#### **SECTION 9. Physical and chemical properties**

9.1 Information on basic physical and chemical properties



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

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



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11.1	Information	on toxicological e	ffects						
	Acute toxicit								
Route of exposure:		Method	Method Species		Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mix</sub>		Exposure time		Results
Oral·		No information available	-	No information available			-		-
Derma	·	No information available	-		information lable		-		-
Inhalat	ion.	No information available	-		information lable		-		-
	Specific targ	et organ toxicity -	- single expos	sure (S	TOT SE):				
		Specific	effects		Targ	et orga	n		Note
Oral:	Oral: No information available				No informati	on avail	able	-	
Derma	l:	No information av	ailable		No information available			_	
Inhalat	Inhalation: No information available			No information available			_		
	Aspiration h		No	inforr	nation availab	le.			
	<u> </u>	Exposure t	ime	Spec	ies Evalı	uation	Method		Note
Skin corrosi	on/irritation:	-	-		-		-	-	
Serious damag	s eye je/irritation	-	-		-		-	-	
	Sensitization	1							
Skin se	ensitization:	No infor	mation availa	ble.					
Respira	atory sensitizat	ion: No infor	mation availa	ble.					
	Symptoms r	elated to the phys	ical, chemica	l and t	oxicological cl	naracter	istics		
Oral ex	(posure:	Harmful if swall	owed.						
	l exposure:	Harmful if abso	rbed through	n skin.	May cause ski	n irritati	on.		
Derma					iratam, tract ir	ritation			
	ion exposure:	Harmful it inhal	ed. May caus	se resp	iratory tract in	ntation.			



Subchronic inhalation

Chronic oral

Chronic dermal

No information available

No information available

No information available

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Trading name:		FUCHSIN ACID VAN GIESON REAGENT						
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	Dose	Exposure time	Species	Method	Evaluation	n Note
Subacute oral	No information available	No information available	No information available	No information available	No informatio available	on -
Subacute dermal	No information available	No information available	No information available	No information available	No information available	on -
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	on -
Subchronic oral	No information available	No information available	No information available	No information available	No information available	on -
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	on -
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	on -
Chronic oral	No information available	No information available	No information available	No information available	No information available	on -
Chronic dermal	No information available	No information available	No information available	No information available	No information available	on -
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	on -
c :::			(CTOT	DE)		
Specific	target organ toxicit	<u> </u>	· · · · · · · · · · · · · · · · · · ·		raan	NILL
Subacute oral	No informa	Specific effec	.15	Target o		Note -
Subacute dermal			No information		_	
Subacute dermai		ition available		No information		_
Subchronic oral		ition available		No information		
		ation available ation available		No information available		1

No information available

No information available

No information available



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Trading name:		FUCHSIN ACID VAN GIESON REAGENT				
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Chronic	c inhalation	No information available		No information available -				
	CMR effects (	carcinogenicity; mutagenicit	nicity; reproductive toxicity)					
	Carcinogenic	ity:	Bas	ed on available data, the classification criteria are not met.				
	Mutagenicity	in vitro:	Bas	ed on available data, the classification criteria are not met.				
	Genotoxicity:		Bas	ed on available data, the classification criteria are not met.				
	Mutagenicity	in vivo:	Bas	ed on available data, the classification criteria are not met.				
	Germ cell mutagenicity: Reproductive toxicity:		Based on available data, the classification criteria are not met.  Based on available data, the classification criteria are not met.					
		•						
	Summary o properties:	f evaluation of the CN	МR	Based on available data, the classification criteria are not met.				
11.2	Practical expe	eriences:						
	Classification	observations:		No information available				
	Other observ	ations:		No information available				
11.3	General note	S:						
	_							

SECTION 12. Ecologic	cal informat	ion				
12.1 Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	4 days	No information available	No information available	No information available	-
Other organisms	-	-	-	_	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-



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Tradin	g name:				FUC	HSIN ACID VA	N G	IESON RE	AGENT		
Produc	ct code:	F	AG-OT-X**		D	ate of compila	tion:	27 Jur	e 2019	Version:	3
Crustac	cea:		EC <sub>50</sub>	48 hours		No information available		ormation ilable	No information available	n -	
Algae/aquatic plants IC <sub>50</sub> 72 hours		: :	No information available		ormation ilable	No information available	n -				
Other o	organisms		_	-	_	-	_		-	-	
12.2	Persiste	nce ai	nd degradal	oility							
	Abiotic										
			gradation h	alf-lives		Method		Evaluation	1	Note	
Marine	water		nformation a			information lable		informatior ilable	-		
Fresh w	vater	No ir	nformation a	available		information ilable	No informatio available		-		
Air No information available			o information ailable No information available			-					
Soil		No ir	nformation a	available		No information available No informati			<b> </b>		
	Biodegr	adatio	an.								
% De	egradation		Time (	davs)		Method		Evaluation	<u> </u>	Note	
	rmation			formation		information ilable		informatior ilable	ı No	information ilable	
12.3	Pioaccu	mulat	ive potentia	.1							
12.3			er partition o		loa K	ow)					
Valu			ntration	рН	°C	Method		Evalua	ation	Note	
-	-			-	_	-		-	-		
	Biocono	entra	tion factor (	BCF)							
V	/alue		Speci	es		Method		Evaluatio	on	Note	
No info	ormation le	N av	o in vailable	formation		information lable		o informatio vailable	on -		



12.6

Other adverse effects

No further relevant information available.

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Tradin	g nam	e:		FUCHSI	N AC	ID VAI	N GIESC	N RE	AGENT		
Produ	ct code	e: FA	G-OT-X**	Date	of co	mpilatio	on:	27 Jun	e 2019	Version:	5
	Chror	nic ecoto	cicity								
	Valu	ie	Dose	Exposure time	Spe	ecies	Meth	nod	Evaluation	n Note	ı
Chronic	c toxicit	y on fish	LC <sub>50</sub>	information	formation information		No informa availab	1	No information available	-	
	c toxicit ea ( <i>Dap</i>	-	EC <sub>50</sub>		No inforr availa	mation Ible	No informa availab	1	No information available	-	
12.4	Mobi	lity in soil									
	1			on in environme	ental c	ompart	ments:				
	No in	formatio	n available			•					
	Surfa	ce tensio	า:								
	Va	alue	°C	Concentrat	Concentration Method			od		Note	
	No inforr availa	mation ible	No information available	No information available		No information available		1	-		
	Adso	rption / d	esorption								
Transp	ort	=	coefficient 's constant	log Kow	Ev	aporati	on rate	Ŋ	Method	Note	
Soil-wa	at∆r :	No available	information	No information available		o inform ailable	nation	No in availa	formation able	-	
Water-	air	No available	information	No information available		o inform ailable	nation	No in availa	formation able	-	
Soil-air	•	No available	information	No information available		o inform ailable	nation	ation No information available		-	
12.5	Recul	ts of DRT	and vPvB asses	sment							
			CHILL VE VD ASSES	SHICHL							



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SECTION	I 13. Disposal considerations					
13.1	Waste treatment methods					
13.1.1.	Product/Packaging disposal:					
	Submit for disposal to the leg Protection.	al person authorized by the Ministry of Environmental and Nature				
13.1.2.	Waste codes/waste designation	ons according to Law:				
	15 01 10*: Packaging that consubstances	ntains residual hazardous substances or is contaminated with hazardous				
13.1.3.	Waste treatment – relevant in	formation:				
	No information available					
13.1.4.	Sewage disposal – relevant in	formation:				
	Waste must not be disposed					
13.1.5.	Other disposal recommendati	ions:				
	authorized by the ministry in	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 rs authorized by the ministry in charge.				
13.1.6.	Relevant Community provisio	ovisions:				
	Disposal must be made accor	ding to official regulations.				
SECTION	I 14 TRANSPORT INFORMATI	ON				
	Transporting/shipment by road	(ADR)				
UN numb	oer:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing o	group:	-				
Environm	nentally hazardous:	-				
Special p	recautions for user:	-				
	Transporting/shipment by rail (I	RID)				
UN numb	oer:	Not subject to transport regulations				
UN prop	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing o	group:	-				



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

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



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	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 199 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety assessmen	nt
	None	

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



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		** "X" in the product code marks different volumes (different packagings of the product)
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with
		instructions for use or improper use of the product described in this
		material safety data sheet.

ANNEX: Exposure scenario resulting to chemical safety assessment
-