

VERHOEFF KIT

The kit contains:

Ferri reagent, Verhoeff B Fuchsin Acid Van Gieson reagent Hematoxylin, Verhoeff A Iodine solution, Verhoeff C Reagent for differentiation, Verhoeff Sodium thiosulfate, 5% solution



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Trade name:		FERRI REAGE	NT, VERHOEFF B		
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3

1.1.	Product identifier				
	Trading name:	FERRI R	EAGENT,	, VERHOEFF	В
	Chemical name:	-			
	Product code:	FRV-OT	-X**		
1.2.	Relevant identified	uses of the	of the substance or mixture and uses advised against		
	Uses:			For use w	ith special staining kits.
	Uses advised again	st:		Only the	identified uses are advised.
	Reason why uses a	dvised agai	nst:		uct is intended for use only as an <i>in vitro</i> diagnostic levice and there is no reason to use it for other
1.3.	Details of the supp	the supplier of the safety data sheet			
	Supplier:		BioGno	ost Ltd.	
	Address:		Medju	gorska 59, Z	Zagreb
	Telephone number	:	+385 1	1 2409997	
	Telefax:		+385 1	1 2404039	
	e-mail of competer	nt person:	<u>msds@</u>	<u>biognost.h</u>	<u>r</u>
	National contact:		-		
1.4.	Emergency telepho	ne numbei	numbers		
	National Protectior	and Rescu	e Direct	orate:	112
	Medical informatio	n:			+385 1 2348 342
	Other information:				-

SECTIO	N 2. Hazards identification		
2.1.	Classification of the substa	nce or mixture	
2.1.1.	Classification according to	Regulation (EC) No	1272/2008 (CLP)
	Hazard class and ca	ategory code:	Hazard statement*:
	Skin Irr. 2		H315
	Eye Irr. 2		H319
2.1.2.	Additional information		
	-		
*For the	e full text of H and EUH phras	ses see Section 16.	
2.2.	Label elements		
	Product identification:	FERRI REAGENT,	VERHOEFF B
	Identification number:	-	
	Authorisation number:	-	



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	Hazard pictograms:	GHS07
	Signal word:	Warning
	Hazard statement:	H315 Causes skin irritation H319 Causes serious eye irritation.
	Precautionary statement:	 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+P313 IF exposed or concerned: Get medical advice/attention.
	Supplemetal hazard information (EU):	-
2.3.	Other hazards	
		iting properties. tains no components considered to be either persistent, bioaccumulative sistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Co	mposition/informa	tion on ingred	ients	
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/ -	-	9 – 10 %	ferric chloride hexahydrate	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 3; H412

SECTIO	ON 4. First aid measures	
4.1.	Description of first aid me	easures
	General notes:	Move out of dangerous area. Show this safety data sheet to the doctor and first responders.
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical advice.
	Following skin contact:	Wash off with soap and plenty of water. If irritation occurs and persists: Get medical advice.



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	Followi	ng eye contact:	2	r for several minutes. Remo- ontinue rinsing. If eye irritatione.		s, if
	Followi	ng ingestion:	Never give anything by mo water.	outh to an unconscious pers	on. Rinse mouth	n with
	Self-pro first aid	otection of the ler	-			
4.2.	Most in	nportant symptom	is and effects, both acute and	delayed		
	Followi	ng inhalation:	According to our findings, of the substance have not	chemical, physical and toxic been entirely tested.	cological proper	ties
	Followi	ng skin contact:	According to our findings, of the substance have not	chemical, physical and toxic been entirely tested.	cological proper	ties
	Followi	ng eye contact:	According to our findings, of the substance have not	chemical, physical and toxic been entirely tested.	cological proper	ties

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

SECTIO	ON 5. Firefighting measures	
5.1.	Extinguishing media	
	Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (FOG) or foam.
	Unsuitable extinguishing media:	Avoid solid water stream as it may scatter and spread fire.
5.2.	Special hazards arising from the su	bstance or mixture
	Hazardous by products of fire:	Use water spray to cool fire exposed container surfaces and to protect personnel. Thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).
5.3.	Advice for firefighters	
	Use a self-contained open-circuit containers exposed to fire with wa	ompressed air breathing apparatus and fireproof clothing. Cool closed ter spray or vapor.
5.4.	Additional information	
	3	ing due to increase in pressure. Remove sources of heat and nvironment with extinguishing media.

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



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	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment.	
	Emergency procedures:	Mark the area using proper signs.	
6.1.2.	For emergency responders:		
	Use protective equipment; in (see Section 8).	case of inadequate ventilation use adequate airways protective equipment	
6.2.	Environmental precautions:		
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact Nation Protection and Rescue Directorate (NPRD) on 112.		
6.3.	Methods and materials for co	ntainment and cleaning up	
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.	
6.3.2.	Cleaning up:	After removing the product, use water to wash the work space and used materials.	
6.3.3.	Other information:	No information available.	
6.4.	Reference to other sections		
	-		

SECTIC	DN 7. Handling and storage		
7.1.	Precautions for safe handling		
7.1.1.	Protection measures		
	Measures to prevent fire:		Use in well ventilated storage rooms. Refer to the manufacturer's recommendations.
	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 w	ash 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 containe well ventilated storage rooms at temperatures ranging from 15 to 25 °C.	
	Packaging materials:	Manufact	urer's original packaging.
	Requirements for storage rooms and vessels:	Keep awa tightly clo	y from food and drink. Keep the containers osed.



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	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. EX	KPOSI	JRE CO	NTROLS / P	ERSONA	AL PROTECTIO	N		
8.1. Cont	rol pa	rameter	S					
Substance CAS No				Occupational exposure limit values/short term values		gical limit values		
					ppm	mg/m ³		
-			-		-	-		-
<u> </u>								
Substance:	-							
EC No:	-		CAS No:	-				
DNEL								
					Industrial			
Route of exposure:			te effect local		ute effect systemic	Chronic loca		Chronic effect systemic
Oral		-		-		-	-	
Inhalation		-		-		-	-	
Dermal		-		-		-	-	
Critical physica	al para	meters:	solubility, fl	ammabil	ity, corrosivity:	-	·	
					Consumer			
Route of expos	sure:		te effect local	-	ute effect systemic	Chronic loca		Chronic effect systemic
Oral		-		-		-	-	
Inhalation		-		-		-	-	
Dermal		-		-		-	-	
PNEC								
Environmental	prote	ction ta	rget		PNEC			



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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				
	Substance/mixture related measures to prevent exposure during identified uses:		Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		No information available		
	Organisational measures to preve exposure:	nt	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:	onal protection equipment:			
8.2.2.1.	Eye and face protection:		Safety glasses tested and approved under appropriate standards such as EN 166(EU).		
8.2.2.2.	Skin protection:				
	Hand protection:		Handle with chemical resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.		
	Other skin protection:		No specific protective equipment required.		
8.2.2.3.	Respiratory protection:		Use when overexposure potential. Improper use of respirators is dangerous.		
8.2.2.4.	Thermal hazards:		No information available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See S	Section 6		
	Structural measures to prevent exposure:		nodern equipment.		
	Organisational measures to prevent exposure:		ot the work process to the required working conditions of the place.		



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Technical measures to prevent exposure:

See Section 6

•	Information on basic physical	and chemical properties		
		Value	Method	
	Physical state:	liquid	No information available	
	Colour:	yellow	No information available	
	Odour/odour threshold:	No information available	No information available	
	Melting point / freezing point:	No information available	No information available	
	Boiling point or initial boiling point and boiling range:	No information available	No information available	
	Flammability:	No information available	No information available	
	Lower and upper explosion limit:	No information available	No information available No information available	
	Flash point:	No information available		
	Auto-ignition temperature:	No information available	No information available	
	Decomposition temperature:	No information available	No information available	
	pH:	No information available	No information available	
	Kinematic viscosity:	No information available	No information available	
	Solubility:	No information available	No information available	
	Partition coefficient n- octanol/water (log value):	No information available	No information available	
	Vapour pressure:	No information available	No information available	
	Density and/or relative density	No information available	No information available	
	Relative vapour density:	No information available	No information available	
	Particle characteristics:	No information available	No information available	
.2.	Other information			

SECTIO	SECTION 10. Stability and reactivity		
10.1.	Reactivity:	Not reactive under normal conditions.	
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.	



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10.4.	Condit	ions to avoid:		Contact with extremes.	n incompatible materials an	d temperature		
10.5.	Incom	patible materials:		Strong oxid	izers.			
10.6.	Hazaro	lous decomposition	products:	thermal dec	ecompose under normal con composition can produce ca c) and carbon dioxide (as as cons).	irbon monoxide		

11.1. Inform	nation on toxicological	effects						
Acute	toxicity:							
Route of exposure:	Method	Sp	ecies	LD ₅₀ /L	ctive ose .C ₅₀ or ^{nixture}	Exposu time	re	Results
Oral:	No information available		-	inforn	lo nation lable	-		-
Dermal:	No information available		-	inforn	lo nation lable	-		-
Inhalation:	No information available		-	inforn	lo nation lable	-		-
C	fi		(CTC					
Speci	fic target organ toxicity	pecific effe	•	JT-SE):	Taroc	at organ		Note
Oral:	No information av				Target organ		_	Note
Dermal:	No information av							
Inhalation:	No information av	vailable					-	
Aspira	ation hazard:		-					
Irritat	on and corrosion							
		re time	Species		Evaluation	on N	lethod	Note
Skin corrosion/i	rritation: No int available	ormation	rabbit	-		-		mild skin irritation
Serious irritation	n to eyes: No int available	ormation	rabbit	2	4 h	-		eye irritation



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Correl	tization						
	tization						
Skin sensitizatio	on:	INO INTORM	nation available.				
Respiratory sensitization:		No inform	nation available.				
Symp	toms rela	ated to ph	ysical, chemical	, and toxicologi	cal properties		
Oral exposure:		No kno	own specific syr	nptoms.			
Dermal exposu	re:	No kno	own specific syr	nptoms. May ca	use skin irritatioi	า.	
Inhalation expo	sure:	No kno	own specific syr	nptoms.			
Eye exposure:		No kno	own specific syr	nptoms. May ca	use mild eye irrit	ation.	
Repea	ated dose	e toxicity (subacute, subcl	nronic, chronic)			
	D	ose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No info availab	ormation lle	No information available	No information available	No information available	No information available	No informatior available
Subacute dermal	No info availab	ormation lle	No information available	No information available	No information available	No information available	No informatior available
Subacute inhalation	No info availab	ormation lle	No information available	No information available	No information available	No information available	No informatior available
Subchronic oral	No info availab	ormation lle	No information available	No information available	No information available	No information available	No information available
Subchronic dermal	No info availab	ormation le	No information available	No information available	No information available	No information available	No informatior available
Subchronic inhalation	No info availab	ormation le	No information available	No information available	No information available	No information available	No informatior available
Chronic oral	No info availab	ormation le	No information available	No information available	No information available	No information available	No informatior available
Chronic dermal	No info availab	ormation lle	No information available	No information available	No information available	No information available	No informatior available



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Chronic inhalation	No information available	No information available	No informatic available	No infor avail	mation able	No informatio available	No information available		
Spe	cific target organ to	xicity - repeated	exposure (S	STOT-RE):					
		Specific eff	ects	Τ	arget org	jan	Note		
Subacute oral	٢	lo information a	vailable	No inforr	nation av	ailable	No information available		
Subacute deri	mal N	lo information a	vailable	No inforr	nation av	ailable	No information available		
Subacute inha	alation N	lo information a	vailable	No inforr	nation av	ailable	No information available		
Subchronic or	ral N	lo information a	vailable	No inforr	nation av	ailable	No information available		
Subchronic de	ermal N	lo information a	vailable	No inforr	nation av	ailable	No information available		
Subchronic in	halation N	lo information a	vailable	No information available		ailable	No information available		
Chronic oral	٦	lo information a	vailable	No information available		ailable	No information available		
Chronic derm	al N	lo information a	vailable	ole No information available		ailable	No information available		
Chronic inhala	ation N	lo information a	vailable	No inforr	ailable	No information available			
CM	R effects (carcinoge		sity reprodu	ctivo tovici	i+, /)				
	cinogenicity:	nicity, mutagenic				e classificatio	on criteria are not		
Curv	enrogementy.		met.	•1 1 1		ı .c	•••••		
Mut	tagenicity <i>in-vitro</i> :		met.	on avaliabl	e data, th	e classificatio	on criteria are not		
Ger	notoxicity:		Based met.	Based on available data, the classification criteria are not					
Mut	tagenicity <i>in-vivo</i> :			on availabl	e data, th	e classificatio	on criteria are not		
Ger	m cell mutagenicity		Based met.	on availabl	e data, th	e classificatic	on criteria are not		
Rep	oroductive toxicity:		Based omet.	on availabl	e data, th	e classificatio	on criteria are not		
Sun	nmary of evaluati	on of the CN	ИR ,						
	perties:		NO INTO	ormation a	vallable				



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

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11.2.	Information on other hazards:
11.2.1.	Endocrine disrupting properties:
	No known endocrine disrupting properties that affect human health.
11.2.2.	Other information:
	-

12.1.	Toxicity							
Acute (s toxicity	hort-term)	Dose	Exposu time	re Species	Ν	1ethod	Evaluation	Note
Fish		LC ₅₀	96 hours	-	-		-	-
Crustace	ea:	EC ₅₀	48 hours	-	-		-	-
Algae/a	quatic plant	s: IC ₅₀	72 hours	-	-		-	-
Other o	rganisms	-	-	-	-		-	-
Chronic toxicity	(long-term)) Doza	Exposu time	re Species	Ν	1ethod	Evaluation	Note
Fish		LC ₅₀	96 hours	-	-		-	-
Crustace	ea:	EC ₅₀	48 hours	-	-		-	-
Algae/a	quatic plant	:s: IC ₅₀	72 hours	-	-		-	-
Other o	rganisms	-	-	-	-		-	-
12.2.	Persistenc	e and degrad	lability					
	Abiotic de	egradation						
	De	egradation ha	lf-lives	Method			Evaluation	Note
Marine water	No ir	nformation av	ailable	No information available		No information available		-
Fresh wa	ater No ir	nformation av	ailable	No information ava	ilable	No information available		-
Air	No ir	nformation av	ailable	No information ava	ilable	No information available		-
Soil	No ir	nformation av	ailable	No information ava	ilable	No info availab	ormation le	-
	Biodegra	dation						
	adation	Time (d	``	Method		Evaluatio		Note



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No infor available		No in availa	formation ble	DN		No ir availa	nformatio able	n		information lable		-		
12.3.	Bioaccum		•											
Malua	Octanol-				cient			دار م		F	•		Nete	
Value No informat available	No i ion avai	ncentra nforma lable		рН -	-	°C	No info availabl		on	Evaluat No informa available		-	Note	
	Diaconce													
Val	Bioconce	entratio	Speci				Method			Evaluation			Note	
No infor available	mation	No in availa	formatio			No ir availa	nformatio			o information vailable		-	Note	
	Chronic	ecotox	icity											
	Value		Dose		posu time		Spec	cies		Method	Εv	aluation	No	te
Chronic	toxicity on	fish	LC ₅₀	avail	rmati lable	on	No informa availabl		av	formation vailable	avai	rmation lable	-	
	toxicity on a (Daphnia		EC ₅₀		rmati lable		No informa availabl			o formation _{railable}	1	rmation lable	-	
12.4.	Mobility	in soil												
			cted di	stributio	on in	envir	onmental	comp	oartm	nents:				
	Surface t	ension	:											
	Value		°C		Co	ncent	tration		Ν	1ethod			Note	
	No informati n availab		o formatio vailable	on		nform lable	nation	No ir availa		nation	-			_



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	,	:			:		:	
	Adso	rption / desorption	1	1		1		
Transpo	rt	A/D coefficient Henry's constant	log Kow	Evapor rate		Method	Note	
Soil-wate		No information available	No information available	No informat available		No information available	-	
Water-ai		No information available	No information available	No informat available		No information available	-	
Soil-air		No information available	No information available	No informat available		No information available	-	
			1	:		:	:	
12.5.	Resul	ts of PBT and vPvB as	sessment					
		substance/mixture cor						/e
	and t	oxic (PBT), or very per	sistent and very bi	oaccumul	ative (v	(PvB) at levels of 0.1%	6 or higher.	
12.6.		crine disrupting prope			· .			
		ubstance/mixture doe erties according to RE						r
	• •	mission Regulation (El				5	-, - ,	
12.7.	Othe	r adverse effects						
	No in	formation available						
SECTION	N 13. C	Disposal consideration	ons					
13.1.	Waste	e treatment methods						
13.1.1.		duct/Packaging dispo						
		mit for disposal to the tection.	e legal person auth	norized by	the M	inistry of Environmen	ital and Nature	
12 1 2	14/-		nations assertive	tolour				
13.1.2.		ste codes/waste desig posal must be made a			ns			
		Josai must be made a		regulatio	113.			
13.1.3.	Was	ste treatment – releva	nt information:					



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	No information available	
13.1.4.	Sewage disposal – relevant i	information:
	Waste must not be disposed	d of into the sewage system.
13.1.5.	Other disposal recommenda	ations:
	authorized by the ministry ir	act's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. e collectors authorized by the ministry in charge.
13.1.6.	Relevant Community provisi	ons
15.1.0.		015.
13.1.0.	-	
13.1.0.	-	
	-	
	-	
	- I 14. Transport information Transporting/shipment by roa	
SECTION	- I 14. Transport information Transporting/shipment by roa	ad (ADR)
SECTION UN numb UN prope	- I 14. Transport information Transporting/shipment by roa ber:	ad (ADR)
SECTION UN numb UN prope	- I 14. Transport information Transporting/shipment by roa ber: er shipping name: t hazard class(es):	ad (ADR) Not subject to transport regulations -

Environmental nazaras.	
Special precautions for user:	-
Transporting/shipment b	by rail (RID)
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 b	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 b	by sea (IMDG)
UN number:	Not subject to transport regulations



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I					
UN proper shippin	g name:	-			
Transport hazard c	lass(es):	-			
Packing group:		-			
Environmental haz	ards:	-			
Special precaution	s for user:	-			
Transport in bulk a of MARPOL73/78 a	according to Annex II and the IBC code:	-			
Transpor	rting/shipment by air	(ICAO-TI/IATA-DGR)			
UN number:		Not subject to transpor	rt regulations		
UN proper shippin	g name:	-			
Transport hazard c	lass(es):	-			
Packing group:		-			
Environmental hazards:		-			
Special precaution	Special precautions for user:				
Further information	n: -				

SECTIO	TON 15. Regulatory information					
15.1.	Safety, health and enviro	Safety, health and environmental regulations/legislation specific for the substance or mixture				
	EU regulations					
	Authorisation and/or re	strictions on use				
	Authorisations:	-				
	Restrictions:	-				
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); 				



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Trade name:	FERRI REAGENT, VERHOEFF B					
Product code:	FRV-OT-X**Date of compilation:14 November 2022Version				3	
Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-						

	guideline)		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act	
15.2.	Chemical safety assessment		
	-		

SECTIO	N 16. C	Other information	
16.1.	Indica	ation of changes:	-
16.2.	Abbreviations and		 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
16.3.	-	terature references ource of data:	Manufacturer's MSDS file.
16.4.		ification and procedu /2008 (CLP)	re used to derive the classification for mixture according to Regulation (EC)
Classific	ation		Classification procedure
_			-
16.5.	Relev	ant H statements (nu	mber and full text)
		302	Harmful if swallowed.
		314	Causes severe skin burns and eye damage.
	H:	315	Causes skin irritation.
		319	Causes very serious eye irritation.
		412	Harmful to aquatic life with long lasting effects.
16.6.	Train	ing advice:	-



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Trade na	ame:	FERRI REAGENT, VERHOEFF B				
Product code: FRV-OT-X**		FRV-OT-X**	Date of compilation:	14 November 2022	Version: 3	
16.7.	Further information:		product) We are not responsible for	rks different volumes (differ consequences in case of fai oper use of the product des	lure to comply with	

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:	21 Dec 2022	Version:	6	

1.1	Product identifier				
	Trading name:	FUCHSIN ACID VAN GIESON REAGENT			
	Chemical name:	-			
	Catalogue number:	FAG-OT-X**	•		
1.2	Relevant identified use	es of the subst	ance or n	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	Details of the supplier of the safety data sheet			
	Supplier:	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	
	Other information:	Other information:		-	

SECTIO	SECTION 2. Hazards identification			
2.1	Classification of the substance	or mixture		
2.1.1	Classification according to Regi	ulation (EC) No 12	272/2008 (CLP)	
	Hazard class and catego	ory code:	Hazard statements*:	
	Not identified as hazardous sub	ostance.	-	
2.1.2.	Additional information			
	-			
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16	
2.2	Label elements			
	Product identification:	FUCHSIN ACID	VAN GIESON REAGENT	
	Identification number:	-		
	Authorization number:	-		
	Hazard pictograms:	-		



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Trading name:	F	FUCHSIN ACID VAN GIESON REAGENT			
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	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	rties:
	No known endocrine disrupti	ng properties
	Results of PBT and vPvB ass PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

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)				
88-89-1/ 201-865-9/ 609-009-00-X	-	< 2 %	picric acid	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331				

4.1	ON 4. First aid measures 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			



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Trading name:	FUCHSIN ACID VAN GIESON REAGENT						
Product code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6		

	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.				
.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 ₂ 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 co	ompressed air breathing apparatus and fireproof clothing.			
5.4	Additional information				
	Cool endangered receptacles with v contaminate the environment with	water spray. Collect contaminated fire fighting water separately. Do not extinguishing media.			

SECTIO	CTION 6. Accidental release measures					
6.1	Personal precautions, protective	equipment and emergency procedures				
6.1.1.	For non-emergency personnel					
	Protective equipment: Use personal protective equipment (see Section 8).					
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Do not smoke. Keep away from ignition sources.				
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in ca (see Section 8).	se 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	inment and cleaning up				



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Trading name:	FUCHSIN ACID VAN GIESON REAGENT							
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6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials.				
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using absorbing material. Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.				
6.3.3.	Other information:	Secure proper ventilation. Do not use incompatible materials (see Section 10).				
6.4	Reference to other sections					
	See Section 7 for information on safe handling.					
	See Section 8 for information on personal protection equipment.					
	See Section 13 for disposal in	formation.				

SECTIO	CTION 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	1:	Secure proper ventilation.				
	Measures to protect the environment:		Prevent spilling into the sewage system and waterways.				
	Other measures:		Protect against electrostatic charges.				
7.1.2.	Advice on general occupational hygiene:						
	Do not eat, drink or smoke in the workspace. The	oroughly was	sh hands after work and before eating.				
7.2	Conditions for safe storage, including any incomp	oatibilities					
	Technical measures and storage conditions:	well ventil	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 from food and drink. Keep the containers tightly closed.						
	Advices for storage equipment:	must be re	e must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper				



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Trading name:					
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	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Expos	ure contro	ols/perso	onal pr	otect	tion				
8.1 Control pa	arameters								
Substance C		CA				upational exposure limit lues/short term values			Biological limit values
					р	pm	mg/m ³		-
-			-			-	-	-	
Substance name: -									
EC No:	-	CAS No	:	-					
DNEL									
			I		Indu	ustrial			
Route of	Αςι			Acut			Chronic		Chronic
exposure:	effect	local	effe	ct sys	temic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
Critical physical par	rameters: s	olubility,	flamm	ability	, 		-		
			1			sumer			
Route of		cute		Acut			Chronic		Chronic
exposure:	effec	t local	effe	ct sys	stemic		effect local		effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal	-		-			-			-
PNEC									
Environmental prot	ection tar	get				PNEC			
Fresh water							nation available		
Freshwater sediments					1	no information available			
Marine water					I	no information available			
Marine sediments					1	no information available			



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Trading name:		UCHSIN ACID VAN GIE	SON REAGENT		
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	Substance/mixture related measures to prevent exposure:	See Sect	tion 6		
8.2.3.	Environmental exposure controls				
8.2.2.4.	Thermal hazards:	No infor	rmation available		
8.2.2.3.	Respiratory protection:	with a fil	ve full face mask (EN 136) or half mask (EN 140) equipped Iter for organic vapors, type "A" (boiling point >65°C) g to EN 14387) used when concentration levels exceed GVI.		
	Other skin protection:	footwea entire fo imperme	everyday work use cotton clothing (EN 340) and suitable r, such as rubber boots (EN 20345) or shoes that cover the bot. In case of spilling hazard, use clothing made of eable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.		
		Regulati	tective gloves have to satisfy the specification of ion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
8.2.2.2.	Skin protection				
8.2.2.1.	Eye and face protection:	levels of	lasses that stick to face (EN 166) or visor in case of lower f concentration in air; protective gas mask that covers the ace in case of higher levels of concentration in air.		
8.2.2.	Personal protection equipment				
	Technical measures to prevent expo	osure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
	Structural measures to prevent exposure: Organisational measures to prevent exposure:		Organization of work in order to reduce other worker's influence during work process.		
			In accordance with Section 7.		
	Substance/mixture related measure prevent exposure during identified		protective equipment 1)o not eat drink or smoke in the		
8.2.1.	Appropriate engineering controls				
8.2	Exposure controls				
Air			no information available		
Soil (agric	cultural)		no information available		
	anisms in sewage treatment		no information available		
Food chai			no information available		



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Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

Information on basic physical and	chemical properties		
	Value	Method	
Physical state:	liquid	No information available	
Colour:	red	No information available	
Odour/odour threshold:	no information available/no information available	No information available	
Melting point / freezing point:	No information available	No information available	
Boiling point or initial boiling point and boiling range:	No information available	No information available	
Flammability:	No information available	No information available	
Lower and upper explosion limit:	No information available	No information available	
Flash point:	No information available	No information available	
Auto-ignition temperature:	No information available	No information available	
Decomposition temperature:	No information available	No information available	
pH:	No information available	No information available	
Kinematic viscosity:	No information available	No information available	
Solubility:	No information available	No information available	
Partition coefficient n- octanol/water (log value):	No information available	No information available	
Vapour pressure:	No information available	No information available	
Density and/or relative density:	No information available	No information available	
Relative vapour density:	No information available	No information available	
Particle characteristics:	No information available	No information available	

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



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Tradir	ng name:		FUCHSIN ACID VAN GI	ESON REAGENT		
Produ	ict code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6
10.2	Chemical	stability:	The product is chemically conditions of storing and	•		
10.3	Possibility	of hazardous reactions:	No information available	•		
10.4	Condition	s to avoid:	No information available			
10.5	Incompati	ble materials:	No information available	•		

SECTION 1	1. Toxicological informati	ion			
11.1 In	formation on hazard classes	as defined ir	Regulation (EC) No 127	2/2008	
A	cute toxicity:				
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}	Exposure time	Results
Oral:	No information available	-	No information available	-	-
Dermal:	No information available	-	No information available	-	-
Inhalation:	No information available	-	No information available	-	-

Specifi	c target organ toxicity – single expos	ure (STOT SE):	
	Specific effects	Target organ	Note
Oral:	No information available	No information available	-
Dermal:	No information available	No information available	-
Inhalation:	No information available	No information available	-

Aspiration hazard:

No information available.

Irritation and co	orrosion				
	Exposure time	Species	Evaluation	Method	Note
Skin corrosion/irritation:	-	-	-	-	-
Serious eye damage/irritation	-	-	-	-	-
Sensitization					
Skin sensitization:	No information	available.			
Respiratory sensitizatior	n: No information	available.			



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Oral exposure: Harmful if sw		wallowed.					
Dermal exposure	e: Harmful if al	osorbed through skin. May cause skin irritation.					
Inhalation expos	ure: Harmful if in	haled. May cau	use respiratory t	ract irritation.			
Eye exposure:	May cause e	ye irritation.					
1							
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)	-			
	Dose	Exposure time	Species	Method	Evaluation	Note	
Subacute oral	No information available	No information available	No information available	No information available	No information available	-	
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-	
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-	
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-	
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-	
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-	
Chronic oral	No information available	No information available	No information available	No information available	No information available	-	
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-	
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-	



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Trading name:		FUCHO			ge 10 of 16	
Product code:	FAG-OT-X**		of compilation:	21 Dec 2022	Version:	6
Troduct code.		Date			version.	0
Subacute oral	No information a	available	No i	nformation available	-	
Subacute dermal No information availa		available	No i	nformation available	-	
Subacute inhalation No information availab		available	No i	nformation available	-	
Subchronic oral No information availab		available	No i	nformation available	-	
Subchronic dermal	No information a	available	No i	nformation available	-	
Subchronic inhalat	ion No information a	available	No i	nformation available	-	
Chronic oral	No information a	available	No i	nformation available	-	
Chronic dermal	No information a	available	No i	nformation available	-	
Chronic inhalation	No information a	available	No i	nformation available	-	
Germ cell	city <i>in vivo</i> : mutagenicity: tive toxicity: of evaluation of	Bas Bas	sed on available d sed on available d sed on available d	ata, the classification of ata, the classification of ata, the classification of ata, the classification of ble data, the classific	criteria are not i criteria are not i criteria are not i	met. met. met.
11.2 Information	on on other hazards:					
11.2.1. Endocrine	disrupting properties:		*			
compone disrupting Article 5 regulatior	tance/mixture does n nts considered to have properties according 7(f) or Commission n (EU) 2017/2100 or C n (EU) 2018/605 at levels	e endocrine to REACH Delegated Commission				
11.2.2. Other info	ormation:		·			
_						

SECTION 12. Ecological information							
12.1 Toxicity							
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note	



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Trading name:		FUCHSIN ACID VAN GIE	SON REAGENT		
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Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	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 ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
12.2 Persistence a	nd degradab	ility				
Abiotic degra	dation					

	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	-
-				
Biode	gradation			
% Degradati	on Time (days)	Method	Evaluation	Note

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



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Tradin	g name:				FUCHS	IN AC		N GIESON RE			2 01 10	
Produ	ct code:	FAG-	OT-X**		Date	e of co	mpilati	on: 21 De	ec 2022	٧	ersion:	6
12.3	Bioaccum	nulative p	ootential									
	Octanol-	water pa	rtition coef	ficient	(log Kow)						
Valu	ie Co	oncentra	tion I	ьΗ	°C	М	ethod	Evalu	ation	Note		
_	-		-		-	_		-		-		
		ntration	factor (BCF)				1				
	ValueSpeciesNo information availableNoinformation available			Vethoo		Evaluati			Note			
			nation		lo information No information available		on	-				
	Chronic e	ecotoxici	ty	F								
	Value		Dose		oosure ime	Sp	ecies	Method	Evalua	ation	Note	
Chronie	c toxicity o	n fish	LC ₅₀	No infor avail	mation able	No infor availa	mation able	No information available	No informa available		-	
	c toxicity oi ea (<i>Daphni</i>		EC ₅₀	No infor avail	mation able	No infor availa	mation able	No information available	No informa available		-	
12.4	Mobility	in soil										
			ed distribut	ion in e	environm	nental o	compart	ments:				
	No inforr	nation a	vailable									
	Surface t	ension:										
	Value		°C	C	oncentra	ition		Method			Note	
	No informati available		o formation ailable		informa ailable	tion	No inf availat	ormation ble	-			
							<u>.</u>					



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Trading name:		FUCHSIN ACID VAN GIE	SON REAGENT		
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	A /P	esorption				
Transpo	ort	oefficient s constant	log Kow	Evaporation rate	Method	Note
Soil-wa	water No information available		No information available	No information available	No information available	-
Water-a	r-air No information available		No information available	No information available	No information available	-
Soil-air	No available	information	No information available	No information available	No information available	-
12.5	Results of PBT	and VPVB acces	sment			
12.5						
			•	onents considered t		
	-			n Delegated regulat	ion (EU) 2017/2100	or Commission
	Regulation (EU) 2018/605 at l	evels of 0.1% or h	igher.		
12.6.	Endocrine disru	upting properti	es			
				onents considered to	o have endecrine d	icrupting properties
				n Delegated regulat		
			evels of 0.1% or h		1011 (EO) 2017/2100	
	Regulation (LO) 2010/005 at i		IUNEI.		
	J .	·		5		
12.7	Other adverse	-				
12.7	Other adverse	effects				
12.7		effects				
	Other adverse	effects vant informatio	on available.			
	Other adverse No further rele DN 13. Disposal	effects vant informatio	on available.			
SECTIC	Other adverse No further rele DN 13. Disposal	effects vant informatio consideration	on available.			
SECTIC	Other adverse No further rele DN 13. Disposal Waste treatn	effects vant informatio consideration	on available. s			
SECTIO 13.1	Other adverse No further rele DN 13. Disposal Waste treatn Product/Pack	effects vant information consideration nent methods caging disposa	on available. s l:	rized by the Ministr	y of Environmental	and Nature
SECTIC 13.1 13.1.1.	Other adverse No further rele DN 13. Disposal Waste treatn Product/Pack Submit for d Protection.	effects vant information consideration hent methods caging disposa isposal to the le	on available. s l: egal person autho	rized by the Ministr	y of Environmental	and Nature
SECTIC 13.1 13.1.1.	Other adverse No further rele DN 13. Disposal Waste treatm Product/Pack Submit for d Protection.	effects vant information consideration hent methods caging disposa isposal to the lo	on available. s I: egal person autho	rized by the Ministr		
SECTIO 13.1	Other adverse No further rele DN 13. Disposal Waste treatm Product/Pack Submit for d Protection.	effects vant information consideration hent methods caging disposa isposal to the lo	on available. s I: egal person autho	rized by the Ministr		
SECTIO 13.1 13.1.1. 13.1.2.	Other adverse No further rele DN 13. Disposal Waste treatm Product/Pack Submit for d Protection. Waste codes 15 01 10*: Pa substances	effects vant information consideration ment methods caging disposa isposal to the lo /waste designa ickaging that co	on available. s l: egal person autho itions according to ontains residual ha	rized by the Ministr		
SECTIC 13.1 13.1.1.	Other adverse No further rele DN 13. Disposal Waste treatm Product/Pack Submit for d Protection. Waste codes 15 01 10*: Pa substances	effects vant information consideration hent methods caging disposa isposal to the lo	on available. s l: egal person autho itions according to ontains residual ha	rized by the Ministr		
SECTIO 13.1 13.1.1. 13.1.2.	Other adverse No further rele DN 13. Disposal Waste treatm Product/Pack Submit for d Protection. Waste codes 15 01 10*: Pa substances	effects vant information consideration nent methods caging disposa isposal to the lo /waste designa ickaging that co nent – relevant	on available. s l: egal person autho itions according to ontains residual ha	rized by the Ministr		
SECTIO 13.1 13.1.1. 13.1.2.	Other adverse No further rele DN 13. Disposal Waste treatm Product/Pack Submit for d Protection. Waste codes 15 01 10*: Pa substances Waste treatm No informati	effects vant information consideration nent methods caging disposa isposal to the lo /waste designa ickaging that co nent – relevant	on available. s l: egal person autho ations according to ontains residual ha information:	rized by the Ministr		



Transport hazard class(es):

Packing group:

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

Page 14 of 16 Trading name: FUCHSIN ACID VAN GIESON REAGENT Product code: Date of compilation: 21 Dec 2022 Version: 6 FAG-OT-X** Waste must not be disposed of into the sewage system. 13.1.5. Other disposal recommendations: Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge. Relevant Community provisions: 13.1.6. Disposal must be made according to official regulations. **SECTION 14 TRANSPORT INFORMATION** Transporting/shipment by road (ADR) UN number: Not subject to transport regulations UN proper shipping name: _ Transport hazard class(es): _ Packing group: _ Environmentally hazardous: _ Special precautions for user: _ Transporting/shipment by rail (RID) UN number: Not subject to transport regulations UN proper shipping name: _ Transport hazard class(es): _ Packing group: _ Environmentally hazardous: _ Special precautions for user: _ Inland waterway transport (ADN) UN number: Not subject to transport regulations UN proper shipping name: _ Transport hazard class(es): _ Packing group: _ Environmentally hazardous: _ Special precautions for user: _ Transporting/shipment by sea (IMDG) UN number: Not subject to transport regulations UN proper shipping name: _



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Trading name:	F	UCHSIN ACID VAN GIES	SON REAGENT		
Product code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

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

15.1	Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
	EU regulations	
	Authorization and/or rest	rictions of use
	Authorizations:	-
	Restrictions:	-
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);



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						age te et te	
Trading name: Product code:			FUCHSIN	ACID VAN GI	ESON REAGENT		
		FAG-OT-X**	Date of	compilation:	21 Dec 2022	Version:	6
1	National	egislation:	dangerous substa and on biological classification of w	inces, Ordinance limit values, Reg aste with a wast	sification, packaging on occupational ex gulation on categorie e catalog and list of ety data sheet, Trans	posure limit value es, types and hazardous waste,	,
15.2 (Chemical	safety assessment					

None

SECTIO	CTION 16. Other information				
16.1	Indication of changes:	-			
16.2	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure u 1272/2008 (CLP)	used to derive the classification for mixture according to Regulation (EC)			
Classifi	cation	Classification procedure			
-		-			
16.5.	Relevant H statements (numb	er and full text)			
	H: -	-			
16.6.	Training advice:	-			
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trade name:	HEMATOXYLIN, VERHOEFF A					
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3	

SECT	ION 1: Identification o	of the substand	ce/mixtu	ire and o	f the company/undertaking		
1.1.	Product identifier						
	Trade name:	HEMATOXYL	IN, VERH	OEFF A			
	Chemical name:	-					
	Catalogue number:	HEMV-OT-X*	**				
1.2.	Relevant identified us	ses of the subst	tance or r	mixture ar	nd uses advised against		
	Uses:			For use w	ith special staining kits.		
	Uses advised against			Only the i	dentified uses are advised.		
	Reason why uses advised against:			The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3.	Details of the supplier of the safety data sheet						
	Supplier:	Supplier:			BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb				
	Telephone number:		+385 1 2409997				
	Telefax:		+385 1 2404039				
	E-mail of competent person:		msds@biognost.hr				
	National contact:		-				
1.4.	Emergency telephone numbers						
	National Protection and Rescue Directorat				112		
	Medical information:				+385 1 2348 342		
	Other information:				-		

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substa	Classification of the substance or mixture			
2.1.1.	Classification according to	Regulation (EC) No	. 1272/2008 (CLP)		
	Hazard class and cat	egory code:	Hazard statement*:		
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-	-			
*For fu	ll text of Hazard- and EU Haz	ard-statements: see	e Section 16.		
2.2.	Label elements				
	Product identification: HEMATOXYLI		N, VERHOEFF A		
	Identification number:	-			
	Authorisation number:	-			



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Trade name:		HEMATOXYLIN, VERHOE	EFF A		
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

	Hazard pictograms:	GHS02
	Signal word:	Danger
	Warning statement:	H225 Highly flammable liquid and vapor.
	Precautionary statement:	 P210 Keep away from heat/sparks/open flames/hot surfaces Do not smoke. P233 Keep container tightly closed. P280 Wear protective gloves/protective clothing/eye/protection/face protection.
	Supplemental hazard information (EU):	-
2.3.	Other hazards	
	 Endocrine Disrupting Properties: No known endocrine disrupting properties Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. 	

SECTION 3. Co	SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)	
64-17-5/ 200-578-6/ 603-002-00-5	01-2119457610-43- 0147	80 - 100 %	ethanol	Flam. Liq. 2; H225	

SECT	SECTION 4. First aid measures			
4.1.	Description of first aid measur	es		
	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 all contaminated clothes/footwear. Thoroughly wash with water for at least 15 minutes.		
	Following eye contact:	Rinse the eyes using mild jet of clean water for at least 20 minutes with the eyelids held wide open.		



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Trade name:	HEMATOXYLIN, VERHOEFF A						
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3		

	Following swallowing:	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 e	ffects, both acute and delayed
	Following inhalation:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and dyspnea.
	Following skin contact:	Depending on concentration and exposure time, it may lead to irritation, rash, skin drying and skin cracking.
	Following eye contact:	Depending on concentration and exposure time, it may lead to irritation, tearing, redness and pain.
	Following swallowing:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting.
4.3.	Indication of any immediate med	ical attention and special treatment needed
	No information available	

SECT	SECTION 5. Firefighting measures						
5.1.	Extinguishing media						
	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO2 Large fire - water spray or alcohol-resistant foam					
	Unsuitable extinguishing media:	Water with full jet					
5.2.	Special hazards arising from the substance or mixture						
	Hazardous byproducts of fire:	Incomplete combustion of the product.					
5.3.	Advice for firefighters						
	, , ,	elf-contained open-circuit compressed air breathing apparatus and a set eat dissipation (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	SECTION 6. Accidental release measures			
6.1.	Personal precautions, protective	ve equipment and emergency procedures		
6.1.1.	For non-emergency personnel			
	Protective equipment:	Use personal protective equipment (see Section 8).		



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Trade name:	HEMATOXYLIN, VERHOEFF A					
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3	

	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:				
	Self-contained open-circuit con heat dissipation (fireproof cloth	npressed air breathing apparatus, a set for protecting the body from ing).			
6.2.	Environmental precautions:				
		prevent further spillage of chemicals. Prevent environmental pollution by nter the sewage system, surface water or groundwater.			
6.3.	Methods and materials 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:	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). Do not use incompatible materials (see Section 10).			
6.4.	Reference to other sections				
	See Section 7 for information o	n safe handling.			
	See Section 8 for information o	n personal protection equipment.			
	See Section 13 for disposal info	rmation.			

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



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Trade name:			HEMATOXYLIN, VERH	OEFF A			
Produ	uct code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3	
	Technica conditior	l measures and storage ns:	Keep in tightly closed an ventilated storage room 25 °C. Protect from heat	s at temperatures ra	nging from 1		
	Packagin	g materials:	Manufacturer's original p	oackaging.			
	Requirements for storage rooms and vessels:		Keep away from food and drink. Keep the containers tightly closed.				
	Advices f	or storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.				
	Further information on storage conditions:		Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).				
7.3.	Specific e	end use(s)					
	Recomm	endations:	-				
	Industria	l sector specific solutions:	-				

SECTION 8. Exposure	e controls/perso	nal protection	า					
8.1. Control para	meters							
Substance	CASIN		•		exposure limit term values	Biological limit values		
			ppm		mg/m³			
Ethanol	64-17	-5	1000/	-	1900/-	No information available		
Substance:	Substance: -							
EC No: - CAS No: -								
DNEL								
		In	ndustrial					
Route of exposure:	Acute Acut			Chronic		Chronic		
Route of exposure.	effect local	effect syste	emic	e	ffect local	effect systemic		
Oral	-	-	-			-		
Inhalation	1900 mg/m ³ (ethanol)	-	-			380 mg/m ³ (ethanol)		
Dermal	-	-	-			343 mg/kg (ethanol)		
Critical physical param	neters: solubility,	flammability, c	orrosivit	y:	-			
		Co	onsume	r				
Pouto of ovposition	Acute	Acute			Chronic	Chronic		
Route of exposure:	effect local	effect syste	emic	effect local		effect systemic		
Oral	-	-	-			87 mg/kg bw/day (ethanol)		



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Trade name:	HEMATOXYLIN, VERHOEFF A						
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3		

Inhalatio	'n	950 mg/m ³ (ethanol)	-		-	114 mg/m ³ (ethanol)
Dermal		-	-		-	206 mg/kg (ethanol)
PNEC						i
Environn	nental protect	ion target		PNEC		
Fresh wa	ter			0.96 mg/l	(ethanol)	
Freshwat	ter sediments			3.6 mg/kg	(ethanol)	
Marine v	vater			0.79 mg/l	(ethanol)	
Marine s	ediments			2.9 mg/kg	(ethanol)	
Food cha	ain			380-720 n	ng/kg (ethanol)	
Microorg	ganisms in sev	vage treatment		580 mg/l ((ethanol)	
Soil (agri	icultural)			0.63 mg/k	g (ethanol)	
Air				no inform	ation available	
8.2.	Exposure co	ontrols				
8.2.1.	Appropriate	e engineering con	trols			
	-	mixture related prevent exposur tified uses:	e	Do not eat, protective e		in the workspace. Use personal
	Structural m exposure:	neasures to preve	nt	No informat	tion available	
	Organisatio prevent exp	nal measures to osure:		Organizatio during work		ler to reduce other worker's influence
	Technical m exposure:	easures to prever	nt	See Section	7.2	
8.2.2.	Personal pro	otection equipme	nt			
8.2.2.1.	Eye and face	e protection:	of c	oncentration		EN 166) or visor in case of lower levels e gas mask that covers the entire face ntration in air.
8.2.2.2.	Skin protect	ion				
				standard EN	374.	ding to the EU Directive 2016/425/EEC
	Hand prote	ction:		Glove th	aterial: nitrile ru ickness: ≥0.50 n rough time: >48	nm



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Trade name:	HEMATOXYLIN, VERHOEFF A						
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version: 3			

	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.		
8.2.2.3.	Respiratory protection:	a filter for organic v	mask (EN 136) or half mask (EN 140) equipped with apors, type "A" (boiling point >65°C) acording to en concentration levels exceed GVI.	
8.2.2.4.	Thermal hazards:	No information ava	ailable	
8.2.3.	Environmental exposure cont	rols		
	Substance/mixture related me exposure:	easures to prevent	See Section 6	
	Structural measures to prever	nt exposure:	Use modern equipment.	
	Organisational measures to prevent exposure:		Adapt the work process to the required working conditions of the workplace.	
	Technical measures to preven	it exposure:	See Section 6	

9.1.	Information on basic physical an	d chemical properties	
		Value	Method
	Physical state:	liquid	no information available
	Colour:	brown red	no information available
	Odour/odour threshold:	ethanol like/no information available	no information available
	Melting point / freezing point:	no information available	no information available
	Boiling point or initial boiling point and boiling range:	no information available	no information available
	Flammability:	no information available	no information available
	Lower and upper explosion limit:	no information available	no information available
	Flash point:	15 °C	no information available
	Auto-ignition temperature:	no information available	no information available
	Decomposition temperature:	no information available	no information available
	pH:	no information available	no information available
	Kinematic viscosity:	no information available	no information available
	Solubility:	no information available	no information available
	Partition coefficient n- octanol/water (log value):	no information available	no information available



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Trade name: Product code:		HEMATOXYLIN, VERHOEFF A					
		HEMV-OT-X**	Date of compilation:	14 Nov 2022 Version: 3			
	Vapour p	pressure:	No information available	no information available			
	Density and/or relative density:		no information available	no information available			
	Relative vapour density:		no information available	no information available			
	Particle c	haracteristics:	no information available	no information available			
9.2.	Other inf	ormation					
	-						

SECTIO	SECTION 10.: Stability and reactivity			
10.1.	Reactivity:	The product is stable under normal working and storage conditions.		
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using.		
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:	Avoid heat, sparks, open flames and other ignition sources.		
10.5.	Incompatible materials:	Oxidants, acids, alkali metals.		
10.6.	Hazardous decomposition products:	Non-degradable if used in the described manner.		

	Toxicological info					
11.1. Info	rmation on hazard o	classes as defined	in Regulation (E	EC) No 1272/2008		
Acut	te toxicity:		-	i	:	
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ c ATE _{mixture}	Exposure or time		Results
Oral:	-	rat	LD ₅₀	-	7.060	mg/kg (ethanol)
Dermal:	-	rabbit	LD ₅₀	-	>20.000 mg/kg (ethanc	
Inhalation:	-	rat	rat LC ₅₀ 4 h (ethanol) >8		>8.000 mg/l (ethanol)	
Specific tar	get organ toxicity -	single exposure ((STOT-SE):			
		Specific effects		Target orgar	ו	Note
Oral:	No informat	ion available	I	No information available		-
Dermal: No information available		1	No information available		-	
Inhalation:	No informat	ion available	I	No information ava	ilable	-
Aspiratio	n hazard:		No informatio	n available		



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Trade name:	HEMATOXYLIN, VERHOEFF A				
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

initiation an	d corrosion					
	Exposur	re time Spe	cies	Evaluation	Method	Note
Skin corrosion/irritat	ion No available	available		information ilable	No information available	-
Serious eye damage/irritation available		availahlo		information iilable	No information available	-
Sensitization						
Skin sensitizatio	n: No infor	mation available				
Respiratory sensitization:	No infor	mation available				
Oral exposure:	Swallowin sensation; In case of	sical, chemical and g may cause irritation higher levels of con vomiting, aspiration tion may cause suff	on of mucosa, ti ncentration may n causes coughi	ngling sensation cause nausea, a	abdominal pain ar	nd vomitin
Dermal exposur	<u>0</u> .	ight irritation. After short exposure, resorption effects are not likely. Long-term exposure ay cause drying, cracking and tingling sensation of skin.				
Inhalation exposure:		of large amounts of sneezing, headache	•	equately ventila	ated perimeter ma	y cause
Eye exposure:	Direct eye sensation.	contact may cause	slight to moder	ate irritation, la	crimation and bur	ning
Repeated do	se toxicity (suba	cute, subchronic, ch	ronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information	No information available	No information available	-

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



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Trade name:		HEMATOXYLIN, VERHOE	FF A		
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Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

Specific target organ toxicity - repeated exposure (STOT-RE):

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

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)		
Carcinogenicity:	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	



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Trade name:		HEMATOXYLIN, VERHO	DEFF A		
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3

Sumr	mary of evaluation of the CMR properties:	No information available						
11.2.	Information on other hazards:							
11.2.1.	Endocrine disrupting properties:							
	No known endocrine disrupting properties tha affect human health.	t						
11.2.2.	Other information:							

12.1. Toxici	ty					
Acute (short- term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Fish	No information available	8.140 mg/l (ethanol)	-
Crustacea:	EC ₅₀	48 hours	Daphnia magna	No information available	7.800 mg/l (ethanol)	-
Algae/aquatic plants:	IC ₅₀	72 hours	algae	No information available	5.000 mg/l (ethanol)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Doza	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other	-	-	-	-	-	-



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

Trade name	:				HE	MATOXYLIN,	VER	HOEFF A		ge 12 of 17
Product cod		HEMV-OT	-X**			e of compilati			- Nov 2022	Version:
						I				
	Γ	Degradation h	nalf-lives		1	Method		Evaluatio	on	Note
Marine water	No i	nformation a	vailable		info ilabl	rmation e		informati ilable	on _	
Fresh water	No i	nformation a	vailable		info ilabl	rmation e		informati ilable	on -	
Air	No i	nformation a	vailable		info ilabl	rmation e		informati ilable	on -	
Soil	No i	nformation a	vailable		info ilabl	rmation e		informati ilable	on -	
Biodegrad										
% Degradat	ion	Time (d	ays)		M	ethod		Evaluatio	on	Note
-	-			-			-		-	
		cumulative po								
		ol-water part	ition coef					1		
Value	C	oncentration	р	H °(C	Method		Eval	uation	Note
-	-		-	-		-		-	-	
Biocon	centra	ation Factor (BCF)							
Value		Spec	ies			Method		Eva	luation	Note
No information No information available available		e No	No information available		e No information available		-			
Chronic ed	otovi	city								
Value		Dose	Expo	sure time	e	Species	N	1ethod	Evaluation	Note
Chronic toxic on fish	ity	LC ₅₀		ormation		No information available	No infc	ormation	No information available	
Chronic toxic	ity	г с	No info	ormation		No	No		No	

available

information

available

information

available

information

available

_

on crustacea

(Daphnia)

 EC_{50}



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Trade name:	HEMATOXYLIN, VERHOEFF A						
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3		

12.4.	Mobility in soil									
	Kno	own or predicted	d distributi	on in enviro	nmen	tal compartm	ents:			
	No information available									
	Sur	face tension:								
		Value		°C	Co	ncentration	Me	thod		Note
	No information		No i available	nformation	No information available		No inforn availa	nation ble	-	
Adso	orptio	n / desorption A/D coeffi	cient							
Transpo	ort	Henry's cor		log Kov	V	Evaporatio	n rate	N	1ethod	Note
Soil-Wa	iter	No inf available	ormation	No informa available	ation	No informat available	tion No in availa		ormation ole	-
Water-A	Air	No inf available	ormation	No information available		No information available		No information available		-
Soil-Air		No inf available	ormation	No information available				No inf availat	ormation ple	-
10 5	P									
12.5.		sults of PBT and)T	D subs		
	Bas	ed on available	data, the p	broduct does	s not d	contain any PE	31 Or VF	vb subs	tances.	
10 C	Γ	le enire e dien wetin								
12.6.		locrine disruptir ed on available	- · ·		ondo	cripo dicrupta				
	Das				enuc		JI 5.			
12.7.	Oth	ner adverse effe	rtc							
12.1.		adverse effects		ed						
	110									
SECTIO	N 13	. Disposal cons	ideration	5						
13.1.		ste treatment m								
13.1.1.	Pr	oduct/Packagin	g disposal:							
		Ibmit for dispos	• •		uthor	ized by the M	inistry o	of Enviro	onmental an	d Nature



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Trade r	name:		HEMATOXYLIN, VERH		ge 14 of 17			
		HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version: 3			
				14 1100 2022	version. 3			
13.1.2.	Waste c	odes/waste designat	ions according to Low:					
	Packagir	ng that contains resi	dual hazardous substances or is cont	aminated with hazar	dous substances			
13.1.3.	Waste tr	reatment – relevant i	nformation:					
	No infor	mation available						
13.1.4.	Sewage	disposal – relevant i	nformation:					
	Waste m	nust not be disposed	of into the sewage system.					
13.1.5.	Other di	sposal recommenda	tions:					
			ct's remains into the sewage system.					
			n charge. Do not dispose of the packa ors authorized by the ministry in cha		e system. Submi			
13.1.6.		t Community provisi		5				
		• •	rding to official regulations.					
	•		5 5					
SECTIO	N 14. Tran	sport information						
Tra	nsporting/s	shipment by road (A	DR)					
UN num	nber		1170					
UN proj	oer shippin	g name:	Ethanol solution					
Transpo	ort hazard c	lass(es):	3					
Packing	group:		II					
Environ	mental haz	ards:	No information available					
Special	precaution	s for user:	-					
Tra	nsporting/s	shipment by rail (RID)					
UN num	nber:		1170					
UN proj	per shippin	g name:	Ethanol solution					
Transpo	ort hazard c	lass(es):	3					
Packing	group:		II					
Environmental hazards: No information available								
Special	precaution	s for user:	-					
		shipment by inland v	vaterways (ADN)					
UN number:			1170					
UN num			Ethanol solution					
	per shippin	g name:	Ethanol solution					
UN proj	oer shippin ort hazard c		Ethanol solution 3					



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Trade name:		HEMATOXYLIN, VERHOEFF A				
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version:	3	

Environmental hazards:	No information available	
Special precautions for user:	-	
Transporting/shipment by sea (IMDG	i)	
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 MARPOL73/78 and the IBC code:	-	
Transporting/shipment by air (ICAO-	TI/IATA-DGR)	
UN number:	1170	
UN proper shipping name:	Ethanol solution	
Transport hazard class(es):	3	
Packing group:	Ш	
Environmental hazards:	No information available	
Special precautions for user:	-	
Further		

SECTIO	SECTION 15. Regulatory information							
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture							
	EU regulations							
	Authorisation and/or restriction	ons on use						
	Authorisations:	-						
	Restrictions:	-						



					Pa	ge 16 of 17	
Trade	name:			HEMATOXYLIN, VERH	OEFF A		
Produc	t code: HEMV-OT-X**		T-X**	Date of compilation:	14 Nov 2022	Version:	3
		regulations:	18 Res am and 76, 200 Dir 200 of a and Co saf Res 16 mix am RE, dar	gulation (EC) No 1907/2006 of the Eq December 2006 concerning the Re striction of Chemicals (REACH), esta ending Directive 1999/45/EC and rep d Commission Regulation (EC) No (769/EEC and Commission Directives 00/21/EC; ective 2004/42/CE of the European R 04 on the limitation of emissions of v organic solvents in certain paints and d amending Directive 1999/13/EC; uncil Directive 98/24/EC of 7 April 1 ety of workers from the risks related to gulation (EC) No 1272/2008 of the Eu December 2008 on classification, lak stures, amending and repealing Directive ending Regulation (EC) No 1907/200 ACH Restrictions on the manufacturin- ingerous substances, mixtures and art	gistration, Evaluation, ablishing a European ealing Council Regulation of 1488/94 as well as s 91/155/EEC, 93/67/E Parliament and of the olatile organic composi- varnishes and vehicle 998 on the protection to chemical agents at v uropean Parliament ar belling and packaging ectives 67/548/EEC an 6; g, placing on the marke icles (Annex XVII);	Authorisation Chemicals Ag ion (EEC) No 79 Council Dire EC, 93/105/EC Council of 21 unds due to the refinishing pro- n of the health work; id of the Coun of substances id 1999/45/EC, et and use of ce	a and ency, 93/93 ective and April e use ducts a and acil of s and , and ertain
	Informati guideline	-	g 1999/13/E	C about limitation of emissions of	f volatile organic cor	npounds (VO	C-
	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 asses	sment				
	None						

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



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Trade name:		HEMATOXYLIN, VERH	OEFF A	
Product code:	HEMV-OT-X**	Date of compilation:	14 Nov 2022	Version: 3

16.3.	Key literature references and source of data:				
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classific	cation	Classification procedure			
_		-			
16.5.	Relevant H statements (number 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 of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ANNEX: Exposure scenario resulting to Chemical safety assessment



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Trading name:	IODINE SOLUTION, VERHOEFF C				
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

1.1	Product identifier				
	Trading name:	IODINE SOL	UTION, V	ERHOEFF C	
	Chemical name:	-			
	Catalogue number:	JODV-OT-X	**		
1.2 Relevant identified uses of the substance or mixture and uses advised against			nixture and uses advised against		
	Uses:		For use v	with special staining kits.	
	Uses advised against:		Only the	identified uses are advised.	
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.		
1.3	Details of the supplier	Details of the supplier of the safety data sheet			
	Supplier:		BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:	Telephone number:		+385 1 2409997	
	Telefax.:		+385 1 2404039		
	e-mail of competent p	erson:	msds@biognost.hr		
	National contact:		-		
1.4	Emergency telephone	number			
	National Protection ar	d Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regi	ulation (EC) No 12	272/2008 (CLP)		
	Hazard class and category code: Hazard statements*:				
	Not identified as hazardous substance				
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-	statements: see S	ECTION 16		
2.2	Label elements				
	Product identification:	IODINE SOLUTIO	ON, VERHOEFF C		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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Trading name:	IODINE SOLUTION, VERHOEFF C				
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	rties:
	No known endocrine disrupti	ng properties
	Results of PBT and vPvB ass PBT or a vPvB.	sessment: According to the results of its assessment, this substance is not a

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	-

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.



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IODINE SOLUTION, VERHOEFF C					Trading name:
3	Version:	21 Dec 2022	Date of compilation:	JODV-OT-X**	Product code:
า:	Versior	21 Dec 2022	Date of compilation:	JODV-OT-X**	Product code:

	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.	
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 ₂ 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	SECTION 6. Accidental release measures						
6.1	Personal precautions, protective equipment and emergency procedures						
6.1.1.	For non-emergency personnel	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).					
	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 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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Product code: IODV-OT-X** Date of compilation: 21 Dec 2022 Version:	Trading name:	IODINE SOLUTION, VERHOEFF C					
	Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	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 in	formation.		

SECTIO	DN 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust generatio	n:	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 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	facturer'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 re	ge must be made of hard material; floors esistant to chemicals. There must be no drain Ily leads into sewage system. Secure proper n.		



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Trading name:		IODINE SOLUTION,	/ERHOEFF C		
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection									
8.1 Control pa	arameters								
Substance CAS N		S No			upational exposure limit lues/short term values		Bi	ological limit values	
					р	pm	mg/m³		-
-			-			-	-	-	
Substance name:	-	1		1					
EC No:	-	CAS No	:	-					
DNEL									
					Ind	ustrial			
Route of	Αςι	ıte		Acut	e		Chronic		Chronic
exposure:	effect	local	effe	ct sys	stemic		effect local		effect systemic
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-			-	:	-	
Critical physical par	rameters: s	olubility,	flamm	abilit	y, corr	osivity:	-		
					Con	sumer			
Route of	Ad	cute		Acut	te		Chronic		Chronic
exposure:	effec	t local	effe	ct sys	stemic		effect local		effect systemic
Oral	-		-			-		-	
Inhalation	-		-			-		-	
Dermal	-		-			-		-	
PNEC									
Environmental protection target				PNEC					
Fresh water			ļ	no information available					
Freshwater sedime	nts					no information available			
Marine water						no inform	nation available		
Marine sediments						no information available			



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Trading name:	IODINE SOLUTION, VERHOEFF C					
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3	

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				
	Substance/mixture related measures to prevent exposure during identified uses: Structural measures to prevent exposure:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
			In accordance with Section 7.		
	Organisational measures to preve exposure:	nt	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exposure:		Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels. Secure stations for rinsing eyes and showering.		
8.2.2.	Personal protection equipment				
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:	The protective gloves have to satisfy the specification of Regulation (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:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemical (Viton, PVC, himex) and footwear made from the same material.			
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.			
8.2.2.4.	Thermal hazards:	No info	ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		



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Trading name:	IODINE SOLUTION, VERHOEFF C						
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			•				

Structural measures to prevent exposure:	Use modern equipment.
Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
Technical measures to prevent exposure:	See Section 6

Information on basic physical and	chemical properties	
	Value	Method
Physical state:	liquid	No information available
Colour:	dark brown	No information available
Odour/odour threshold:	characteristic /no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling range:	No information available	No information available
Flammability:	No information available	No information available
Lower and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
pH:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n- octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
 Particle characteristics:	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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Tradir	ng name:	IODINE SOLUTION, VERHOEFF C								
Product code:		JODV-OT-X**	Date of compilation: 21 Dec 2022							
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	Condition	s to avoid:	No information available							
10.5	Incompat	ble materials:	No information available							
10.6	Hazardou	s decomposition products:	No information available							

11.1 Inform	ation on hazard classes	as defined i	n Regu	lation (EC) No 1	272/20	08			
Acute	toxicity:								
Route of exposure:	Method	Species	Do	Dose LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure time		Results	
Oral:	No information available	-	No information available			_		-	
Dermal:	No information available	-	No information			-			
Inhalation:	No information available	-	-	information lable		-	-		
Ê									
Specif	c target organ toxicity -		osure (S						
	•	c effects		Target organ				Note	
Oral:	No information a	vailable		No information available		ble	-		
Dermal:	No information a	vailable		No information available					
Inhalation:	No information a	vailable	No information available -						
Aspira	tion hazard:	Ν	o inforr	mation available	9.				
Irritatio	on and corrosion								
8	Exposure	time	Speci	ies Evalua	ation	Method		Note	
Skin corrosion/irrita	tion:	-		-		-	-		
Serious eye damage/irritati	on -	-		-		-	-		
Sensiti	zation								
Skin sensitizatio	1	mation avail	ahle						
Respiratory sen			vailable.						



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Trading name:		IODINE SOLUTION, VERHOEFF C								
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3					

	No informati	nation available.							
Dermal exposure	: No informati	mation available.							
Inhalation expos	ure: No informati	on available.							
Eye exposure:	No informati	on available.							
i									
Repeate	ed dose toxicity (sub	acute, subchro	onic, chronic)	1	1	1			
	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	-			
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-			



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						ge 10 of 16			
Trading	g name:		IODI	NE SOLUTION	, VERHOEFF C				
Produc	t code:	JODV-OT-X**	DV-OT-X** Date		of compilation: 21 Dec 2022		3		
Subacu	te oral	No information av	ailahle	No	information available	_			
	te dermal	No information av		-	information available	_			
	te inhalatior				information available	-			
	onic oral	No information av			information available	_			
	onic dermal	No information av			information available	_			
	onic inhalati			-	information available	_			
Chronic		No information av			information available	_			
	dermal	No information av			information available	_			
Chronic inhalation		No information av			information available	_			
chionic			unubic	110					
		ts (carcinogenicity; muta		-	•				
	Carcinogenicity: Mutagenicity <i>in vitro</i> :				data, the classification				
					data, the classification				
	Genotoxic	ity:	Ba	Based on available data, the classification criteria are not met.					
	Mutagenio	city <i>in vivo</i> :	Ba	Based on available data, the classification criteria are not met.					
	Germ cell	mutagenicity:	Ba	Based on available data, the classification criteria are not met.					
	Reproduct	ive toxicity:	Ba	Based on available data, the classification criteria are not met.					
	Summary properties		he CMR	Based on avail met.	able data, the classific	ation criteria a	e not		
11.2	Informatio	n on other hazards:							
11.2.1.	Endocrine	disrupting properties:							
	componer disrupting Article 57 regulation	ance/mixture does not ots considered to have e properties according t 7(f) or Commission E (EU) 2017/2100 or Co n (EU) 2018/605 at levels o	endocrine to REACH Delegated mmission						
11.2.2.	Other info	rmation:							
	2								

SECTION 12. Ecological information									
12.1 Toxicity									
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			



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Trading name:		IODINE SOLUTION, VERHOEFF C								
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3					

Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	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 ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-
12.2 Persistence	and degradab	oility				
Abiotic deg	radation					
C	egradation ha	alf-lives	Method	Evaluatic	n	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	-
	gradation	Mathad	Fuchastica	Nete
% Degradation	on Time (days)	Method	Evaluation	Note
No information available	No informatio available	n No information available	No information available	No information available



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Tradin	g name:				IOD	IODINE SOLUTION, VERHOEFF C						
Produc	ct code:	JODV	-OT-X**		Date	e of co	mpilatio	on: 21 De	c 2022	Ve	ersion:	3
12.3	Bioaccum	ulative p	otential									
	Octanol-water partition coefficient (log Kow)											
Valu	ie Co	ncentrat	ion p	Н	°C	М	ethod	Evalu	ation		Note	
-	-		-			-		-		-		
	_											
	Piaconcor	tration	factor (BCF)									
V	/alue		Species		N	Vethoo	4	Evaluati	on		Note	
	l l			No info			No informati	on				
availab	available available			availab	le		available		-			
					-							
	Chronic ed	cotoxicit	V									
	1		-	Exc	osure	_						
	Value		Dose		ime Species		ecies	Method	Evaluation		Note	
Chronie	c toxicity on	fich	LC ₅₀	No			mation	No information	No information			
Chronic		11511	LC50	availa		information available		available	available		-	
Chronic	c toxicity on			No		No		No	No			
	ea (<i>Daphnia</i>		EC ₅₀	infor avail	mation able	infor availa	mation able	information available	informat available		-	
			<u>]</u>			aran				·		
12.4	Mobility ir	n soil										
	Known or	predicte	ed distribut	ion in e	environm	nental o	compart	ments:				
	No inform	ation av	ailable									
	Surface te	nsion:										
	Value		°C	C	oncentra	ition		Method			Note	
	No informatic available		o ormation ailable		informa ailable	tion	No inf availat	formation able				



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Trading name:		IODINE SOLUTION, VERHOEFF C				
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3	

Transpo	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-wa	ter No informatio available	No information available	No information available	No information available	-
Water-a	air No informatio available	No information available	No information available	No information available	-
Soil-air	No informatio available	No information available	No information available	No information available	-
12.5	Results of PBT and vPvB ass	essment			
	The substance/mixture doe according to REACH Article Regulation (EU) 2018/605 a	57(f) or Commission	n Delegated regulat		
12.6.	Endocrine disrupting prope	rties			
	The substance/mixture doe according to REACH Article Regulation (EU) 2018/605 a	57(f) or Commissio	n Delegated regulat		
12.7	Other adverse effects				
	No further relevant informa	tion available.			
SECTIO					
SECTIC 13.1	ON 13. Disposal consideration	ons			
		ons			
	ON 13. Disposal consideration	ons 5			
13.1	DN 13. Disposal consideration Waste treatment method	o ns S Sal:	rized by the Ministr	y of Environmental	and Nature
13.1	DN 13. Disposal consideration Waste treatment method Product/Packaging dispo Submit for disposal to the	sal: e legal person autho		y of Environmental	and Nature
13.1	ON 13. Disposal consideration Waste treatment method Product/Packaging dispo Submit for disposal to the Protection.	sal: e legal person autho	o Law:		
13.1	DN 13. Disposal consideration Waste treatment method Product/Packaging dispo Submit for disposal to the Protection. Waste codes/waste designed 15 01 10*: Packaging that	al: e legal person author nations according to contains residual h	o Law:		
13.1 13.1.1. 13.1.2.	DN 13. Disposal consideration Waste treatment method Product/Packaging dispo Submit for disposal to the Protection. Waste codes/waste designed 15 01 10*: Packaging that substances	al: e legal person author nations according to contains residual h	o Law:		
13.1 13.1.1. 13.1.2.	DN 13. Disposal consideration Waste treatment method Product/Packaging dispon Submit for disposal to the Protection. Waste codes/waste design 15 01 10*: Packaging that substances Waste treatment – releva	nations according to contains residual h nations int information:	o Law:		



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Trading name:	IODINE SOLUTION, VERHOEFF C				
Product code:	JODV-OT-X**	Date of compilation:	21 Dec 2022	Version:	3

	Waste must not be disposed	d of into the sewage system.	
13.1.5.	Other disposal recommenda	ations:	
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.		
13.1.6.	Relevant Community provisi	ions:	
	Disposal must be made acco	ording to official regulations.	
SECTIO	N 14. Transport information		
	Transporting/shipment by roa	d (ADR)	
UN num	ber:	Not subject to transport regulations	
UN prop	er shipping name:	-	
Transpo	rt hazard class(es):	-	
Packing	group:	-	
Environr	nentally hazardous:	-	
Special p	precautions for user:	-	
	Transporting/shipment by rail	(RID)	
UN number:		Not subject to transport regulations	
	er shipping name:	-	
	rt hazard class(es):	-	
Packing		-	
	nentally hazardous:	-	
Special p	precautions for user:	-	
	Inland waterway transport (AD		
UN num		Not subject to transport regulations	
	er shipping name:	-	
	rt hazard class(es):	-	
Packing		-	
	nentally hazardous:	-	
Special p	precautions for user:	-	
	Transporting/shipment by sea		
UN num		Not subject to transport regulations	
	er shipping name:	-	
•	rt hazard class(es):	-	
Packing	group:	-	



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Trading name:	IODINE SOLUTION, VERHOEFF C				
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Environmentally hazardous:	
	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	_
Transporting/shipment by air (IC	AO-TI/IATA-DGR)
UN number:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Further information: -	

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	EU regulations		
	Authorization and/or rest	rictions of use	
	Authorizations:	-	
	Restrictions:	-	
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); 	



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						ige to of to	
Trading name:			IODI	NE SOLUTION,	VERHOEFF C		
Produ	ct code:	JODV-OT-X**	Date c	of compilation:	21 Dec 2022	Version:	3
	National	legislation:	dangerous subst and on biologica classification of v	ances, Ordinance al limit values, Re waste with a wast	ssification, packaging e on occupational exp gulation on categorie te catalog and list of fety data sheet, Trans	posure limit value es, types and hazardous waste,	
15.2	Chemical	safety assessment					

None

SECTIO	ON 16. Other information			
16.1	Indication of changes:	-		
16.2	Abbreviations and acronyms:	 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 		
16.3.	Key literature references and source of data:	-		
16.4.	Classification and procedure u 1272/2008 (CLP)	sed to derive the classification for mixture according to Regulation (EC)		
Classifi	cation	Classification procedure		
-		-		
16.5.	Relevant H statements (numb	er and full text)		
	H: -	-		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.		

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF				
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

1.1.	Product identifier					
	Trading name:	REAGENT F	REAGENT FOR DIFFERENTIATION, VERHOEFF			
	Chemical name:	-	-			
	Catalogue number:	RDV-OT-X	**			
1.2.	Relevant identified use	es of the subs	stance or mi	xture and uses advised against		
	Uses:	ith special staining kits.				
	Uses advised against:		Only the i	identified uses are advised.		
	Reason why uses advi	sed against:	uct is intended for use only as an <i>in vitro</i> diagnostic medical gistered at the Agency for Medicinal Products and Medical nd there is no reason to use it for other purposes			
1.3.	Details of the supplier of the safety data sheet					
	Supplier: Bi		ioGnost Ltd.			
	Address: N		Medjugorska 59, Zagreb			
	Telephone number: +		+385 1 2409997			
	Fax no.: +		+385 1 2404039			
	e-mail of competent p	oerson: <u>n</u>	msds@biognost.hr			
	National contact: -		-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue Dir	ectorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

SECTIO	N 2. Hazards identification					
2.1.	Classification of the substance or	mixture				
2.1.1.	Classification according to Regula	ation (EC) No 1	272/2008 (CLP)			
	Hazard class and category	/ code:	Hazard statements*:			
	Not identified as hazardous subst	ance.	-			
2.1.2.	Additional information					
	-					
*For ful	l text of Hazard- and EU Hazard-sta	atements: see S	ection 16			
2.2.	Label elements					
	Product identification:	REAGENT FO	R DIFFERENTIATION, VERHOEFF			
	Identification number: -					
	Authorization no.: -					
	Hazard pictograms:	-				



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF			
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

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

SECTION 3. C	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)	
10025-77-1/ 600-047-2/ -	-	1 - 2 %	ferric chloride hexahydrate	Acute Tox. 4; H302 Skin Irr. 2; H315 Eye Dam.1; H318	

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



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			REAGENT FOR DIFFERENTIATION, VERHOEFF					
		RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			
		rely tested. cal, physical and to	.					
4.3.	Indication	of any immediat	e medical attention and special treat	ment needed				
	-							

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

SECTIC	ON 6. Accidental release meas	ıres	
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 a members without protective equipment. Remove all s sparks and ignition. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.	
6.1.2.	For emergency responders:		
	Wear protective equipment (s	ee 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 containment and cleaning up		
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.	



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Tradin	rading name: REAGENT FOR			GENT FOR DIFFERENT	DIFFERENTIATION, VERHOEFF			
Product code: RDV-O		RDV-OT-X**		Date of compilation:	21 Dec 2022	Version: 4		
6.3.2.	Cleaning	up:	mater in tigf ventila perso Protee	e possible, the substance of ial (sand, diatomaceous ea atly closed impermeable co ated storage rooms until d ns authorized by the Minis ction. After disposal of the ials with water.	arth, vermiculite). Pla ontainers. Store the lisposal. Submit for stry of Environmenta	ace the waste material substance in well disposal to the legal al and Nature		
6.3.3.	Other info	ormation:	-					
6.4.	4. Reference to other sections -							

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. Thoroughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incompatibilities					
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated 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:	-				



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Trading name:	REAC	GENT FOR DIFFERENTI	ATION, VERHOEF	F
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4

8.1. Co	ontrol para	ameters						
1	bstance					l exposure limit rt term values	Biological limit values	
					ppm	mg/m ³		
-			-		-	-	No information available	
Substance name:	-							
EC No:	C No: - CAS No: -							
DNEL								
					Industrial			
Route of exposure:			Acute ect local	effe	Acute ect systemic	Chronic effect loca	Chronic al effect systemic	
Oral		-		-		-	-	
Inhalation		-		-		-	-	
Dermal		-		-		-	-	
Critical phys	sical para	meters: s	solubility, flan	nmabili	ty, corrosivity:	-	·	
					Consumer			
Route of exposure:			Acute ect local	effe	Acute ect systemic	Chronic effect loca	Chronic effect systemic	
Oral		-		-		-	-	
Inhalation		-		-		-	-	
Dermal		-		-		-	-	
PNEC								
Environmen	ntal prote	ction tar	get		PNEC			
Fresh water	•				No info	No information available		
Freshwater	sediment	S			No info	No information available		
Marine wate	er				No info	No information available		
Marine sediments					No info	No information available		
Food chain					No info	No information available		
Microorgan	isms in se	ewage tr	eatment		No info	ormation availab	le	
Soil (agricul	ltural)				No info	ormation availab	le	
Air					No info	No information available		



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF								
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4				

8.2.	Exposure controls						
8.2.1.	Engineering measures						
	Substance/mixture related measures to prevent expo during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to pr exposure:	event	No information available				
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to pro exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equip	oment					
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN visor.					
8.2.2.2.	Skin protection						
	Hand protection:		otective gloves must be according to the EU Directive 2016/425/EEC and andard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter f	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No inf	ormation available				
8.2.3.	Environmental exposure of	controls					
	Substance/mixture related measures to prevent expo		See Section 6				
	Structural measures to pr exposure:	event	Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to pro exposure:	event	See Section 6				

SECTION 9. Physical and chemical properties						
9.1.	Information on basic physical and chemical properties					
		Value	Method			



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF							
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4				
Physical	state.	liquid	No info	rmation available				

	Physical state:	liquid	No information available
	Colour:	yellow	No information available
	Odour/odour threshold:	no information available	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density:	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	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 hazard classes as defined in Regulation (EC) No 1272/2008				
	Acute toxicity:				



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Trading name:	l	REAGENT FOR	R DIFFERENT	IATIO	N, VE	RHOEF	F	
Product code:	RDV-OT-X**	Date of c	compilation:	21 C	Dec 202	22	Version:	4
Route of exposure:	Method	Species	Effective do LD50/LC50 c ATE _{mixture}	or	Expos	ure time	e F	Results
Oral exposure:	No information available	-	LD ₅₀		-		-	
Dermal exposure:	No information available	-	LD ₅₀			-		-
Inhalation exposure:	No information available	-	LC ₅₀			-		-
Specific targ	get organ toxicity – si							
	Specifi	ic effects		et orga	in		Note	
Oral exposure:	No information a	available	No inform available	nation		-		
Dermal exposure: No information		available	No information available			-		
Inhalation exposure:	No information a	available	e No information available			-		
Respiratory	irritation:	No infor	mation availab	le				
Irritation an	d corrosion						ł	
	Exposure time	Species	Eval	uation		Met hod	Ν	ote
Skin irritation:	-	-	-			-	-	
Eye irritation:	-	-	-			-	-	
Sensitization								
Dermal exposure:	No information available	able						
Inhalation exposure:	No information avail	able						
Symptoms r	elated to the physica	l, chemical and t	toxicological cl	haracte	eristics			
Oral exposure:	No information av	vailable						
Dermal exposure:	No information av	vailable						
Inhalation exposure:	No information av	vailable						
Eye exposure:	No information av	/ailable						



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHO					
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022			

Version: 4

	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No informatic available	No information available	No informatio available	n -
Subacute dermal	No information available	No information available	No informatic available	No information available	No informatio available	n -
Subacute inhalation	No information available	No information available	No informatic available	No information available	No informatio available	n -
Subchronic oral	No information available	No information available	No informatic available	No information available	No informatio available	n -
Subchronic dermal	No information available	No information available	No informatic available	No information available	No informatio available	n -
Subchronic inhalation	No information available	No information available	No informatic available	No information available	No informatio available	n -
Chronic oral	No information available	No information available	No informatic available	No information available	No informatio available	n -
Chronic dermal	No information available	No information available	No informatic available	No information available	No informatio available	n -
Chronic inhalation	No information available	No information available	No informatic available	No information available	No informatio available	n -
- · · ·			(67			
Specific	target organ toxicit	pecific effects	xposure (ST		aan	Note
Subacute oral		ation available		Target or No information av	-	-
Subacute dermal		ation available		No information av		-
Subacute inhalat		ation available		No information av		_
Subchronic oral		ation available		No information available		-
Subchronic derm		ation available		No information available		_
Subchronic inhal	ation No informa	ation available		No information av	ailable	-
Chronic oral	No informa	ation available		No information available		-



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							Page 10 of 1	6	
Trading I	name:		REAGE	NT FOR DI	FFERENT	IATION, VERHOE	FF		
Product	Product code: RDV-OT-X** Date of compilation: 21 Dec						Version: 4		
Chronic d	ermal	No informa	tion available	1	No inforn	nation available	-		
Chronic ir	nhalation	No informa	tion available	1	No inforn	nation available	-		
(CMR effec	ts (carcinogenicity	y, mutagenici	ty, reproduc	tive toxicit	y)			
(Carcinoge	nicity:	Based or	n available d	lata, the cl	assification criteria a	are not met.		
۱	Mutageni	city <i>in-vitro</i> :	Based or	n available d	lata, the cl	assification criteria a	are not met.		
(Genotoxic	ity:	Based or	n available d	lata, the cl	assification criteria a	are not met.		
٦	Mutagenicity in-vivo: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.					
F				Based on available data, the classification criteria are not met.					
S	Summarv	of evaluation of th	ne CMR prope	erties: -					
	,								
11.2 I	nformatio	on on other hazard	ds:						
11.2.1. E	Endocrine	disrupting prope	rties:						
	componer endocrine according Commissio 2017/2100		to have properties cle 57(f) or ulation (EU) Regulation						
11.2.2. (Other info	ormation:							

SECTION 12. Ecological information										
12.1. Toxicity										
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note				
Fish	LC ₅₀	96 hours	No information available	No information available	-	_				
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-				
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-				



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF						
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

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

12.2. Persistence and degradability

	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

5					
% Degradation	Time (days)	Method	Evaluation	Note	
No information available	No information available	No information available	No information available	No information available	

12.3. Bioaccumulative potential

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

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



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Trading n	name:	REAGENT FOR DIFFERENTIATION, VERHOEFF								
Product c	code: R	DV-OT-X**		Date o	of compilati	on:	21 Dec	202	22 Versior	n: 4
		tion factor (BCF)								
Valu		Species			ethod		Evaluation		Note	e
No inform available		o inform /ailable	ation	No inforr available			information ailable	on	No information	available
С	hronic ecoto	oxicity	:	1		:		1		
	Value	Dose		oosure ime	Species	١	Nethod		Evaluation	Note
Chronic to	oxicity on fisl	ish LC ₅₀ No No No No Information available available available		o information ailable	-					
Chronic toxicity on crustacea (<i>Daphnia</i>) EC ₅₀		EC ₅₀			No nformation available	1	ormation nilable		o information ailable	-
N	nown or pre Io informatio urface tensio		on in e	environme	ntal compart	men	ts:			
	Value	°C	C	oncentratio	on	M	ethod		Not	te
No No information inf		No information available	No information available		on No inf				-	
A	dsorption /	desorption								
Transport		coefficient y's constant	lc	og Kow	Evap	orati	on rate		Method	Note
Soil-water	No available	information e	No ir availa	nformation able	No inform	natio	n available	è	No information available	-
Water-air	No available	information e	No ir availa	nformation able	No inform	natio	n available	2	No information available	-
Soil-air	No available	information e	No ir availa	nformation able	No inform	natio	n available)	No information available	-



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Trading name: Product code:		REAGENT FOR DIFFERENTIATION, VERHOEFFRDV-OT-X**Date of compilation:21 Dec 2022Version:4						
	The substa according	ince/mixture does not	contain components considere or Commission Delegated reg					
12.6.	Endocrine	disrupting properties						
	according		contain components considere or Commission Delegated regues Is of 0.1% or higher.					
12.7.	Other adve	erse effects						
	No inform	ation available						
		osal considerations						
13.1.	Waste tr	eatment methods						
13.1.1.	Product/	Packaging disposal:						
		or disposal to the lega	l person authorized by the Min	istry of Environme	ntal and Nature			
13.1.2.	Waste co	odes/waste designatio	ns according to Law:					
		mation available	5					
13.1.3.	Waste tr	eatment – relevant inf	ormation:					
13.1.3.		mation available						
13.1.4.	Sewage	disposal – relevant info	ormation:					
13.1.4.		•	f into the sewage system.					
13.1.5.	Other di	sposal recommendation	ons:					
	authorize the pack	ed by the ministry in c	's remains into the sewage syst harge. Do not dispose of the pa authorized by the ministry in a	ackaging into the s	ewage system. Submit			
13.1.6.	Relevant	Community provision	د.					
			5.					



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Trading name:		REAGENT FOR DIFFERENTIATION, VERHOEFF						
Product code:	RDV-OT-X**		Date of compilation:	21 Dec 2022	Version:	4		
			1	1	ł	1		
SECTION 14. Trai	nsport information							
Transpor	ting/shipment by roa	ad (AD	R)					
UN number:		N	ot subject to transport regu	ulations.				
UN proper shippir	ng name:	-						
Transport hazard	class(es):	-						
Packing group:		-						
Environmentally h	azardous:	-						
Special precaution	ns for user:	-						
Transpor	ting/shipment by rai	I (RID)						
UN number:		N	ot subject to transport regu	ulations.				
UN proper shippir	ng name:	-						
Transport hazard	class(es):	-						
Packing group:		-						
Environmentally h	azardous:	-						
Special precaution	ns for user:	-						
Inland wa	aterway transport (Al	DN)						
UN number:		N	ot subject to transport regu	ulations.				
UN proper shippir	ng name:	-						
Transport hazard	class(es):	-						
Packing group:		-						
Environmentally h	azardous:	-						
Special precaution	ns for user:	-						
Transpor	ting/shipment by sea	a (IMD	G)					
UN number:		N	ot subject to transport regu	ulations.				
UN proper shippir	ng name:	-						
Transport hazard	class(es):	-						
Packing group:		-						
Environmentally h	Environmentally hazardous:							
Special precaution	ns for user:	-						
Transpor	ting/shipment by air	(ICAO	-TI/IATA-DGR)					
UN number:		Ν	ot subject to transport regu	ulations.				
UN proper shippir	ng name:	-						
Transport hazard	class(es):	-						
Packing group:		-						
Environmentally h	azardous:	-						



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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF					
Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		
Special precautions	s for user:	-				
Further information	n: -					

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorization and/or restrictions of use					
	Authorizations:	-				
	Restrictions:	-				
	Other EU regulations:	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/9, and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organi solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 10 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); 				
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC- guideline)					
	StructuryChemicals Act, Regulation on classification, packaging and labeling or dangerous substances, Ordinance on occupational exposure limit value on biological limit values, Regulation on categories, types and classifi of waste with a waste catalog and list of hazardous waste, Ordinance 					
15.2.	Chemical safety assessme	ent				
	None					

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



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Trading name:			REAGENT FOR DIFFERENTIATION, VERHOEFF				
Produ	ct code:	RDV-OT-X**	Date of compilation: 21 Dec 2022 Version: 4				
16.2.	Abbreviations and acronyms:		 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative 				
16.3.		Key literature references and					
16.4.	Classifica 1272/20	•	used to derive the classification for mixture according to Regulation (EC)				
Classifi	ication		Classification procedure				
-			-				
16.5.	Relevant	H statements (numb	er and full text)				
	302	-	Harmful if swallowed.				
	H: 315		Causes skin irritation.				
	318		Causes serious eye damage.				
16.6.	Training	advice:	-				
16.7.	Further information:		 ** "X" in the product code marks different volumes (different packagings of the product) We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet. 				

ANNEX:

Exposure scenario resulting to Chemical safety assessment



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

1.1.	Product identifier		-	and of the company/undertaking		
	Trading name:	SODIUM	THIOSULFATE, 5% SOLUTION			
	Chemical name:	-				
	Catalogue number:	NT5-OT	-X**			
1.2.	Relevant identified uses of the su		ubstance or mi	xture and uses advised against		
	Uses:		For use with	special staining kits.		
	Uses advised against:	Uses advised against:		ntified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Fax no.:		+385 1 2404039			
	e-mail of competent p	erson:	msds@biognost.hr			
	National contact:		-			
1.4.	Emergency telephone	Emergency telephone number				
	National Protection ar	nd Rescue	Directorate:	112		
	Medical information:			+385 1 2348 342		
	Other information:	Other information:		-		

SECTIO	ECTION 2. Hazards identification				
2.1.	Classification of the substance or mixture				
2.1.1.	Classification according to Regula	tion (EC) No 12	72/2008 (CLP)		
	Hazard class and category	code:	Hazard statements*:		
	Not identified as hazardous subst	ance.	-		
2.1.2.	Additional information				
	-				
*For ful	l text of Hazard- and EU Hazard-sta	atements: see S	ection 16		
2.2.	Label elements				
	Product identification:	SODIUM THIC	OSULFATE, 5% SOLUTION		
	Identification number:	-			
	Authorization no.:	-			
	Hazard pictograms:	-			



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Trading name:	S	ODIUM THIOSULFATE, 5% SOLUTION			
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

	Signal word:	-			
	Hazard statements:	-			
	Precautionary statements:	-			
	Further information:	-			
2.3.	Other hazards				
	Endocrine Disrupting Proper	rties:			
	Endocrine Disrupting Proper No known endocrine disruptin				

SECTION 3. Co	SECTION 3. Composition/information on ingredients								
CAS/ EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)					
7772-98-7/ 231-867-5/ -	_	5 %	sodium thiosulphate	not classified					

	ON 4. First aid measures			
4.1.	Description of first aid mea	Jres		
	General notes:	-		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well- ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to- mouth) and contact a physician.		
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.		
	Following ingestion:	Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.		
	Self-protection of the first a	der: Treat symptomatically.		
4.2.	Most important symptoms	nd effects, both acute and delayed		
	Following inhalation:	According to our findings, chemical, physical and toxicological properties or 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.		



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Tradir	Trading name:		SODIUM THIOSULFATE, 5% SOLUTION				
Product code:		NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		
	Following eye contact: Following ingestion:		According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested. According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				
4.3.	Indication of any immediat		e medical attention and special treatr	ment needed			
	-						

SECTIO	ON 5. Firefighting measures	
5.1.	Extinguishing media	
	Suitable extinguishing media:	Small fire - water spray, dry powder, CO ₂ Large fire - water spray or alcohol-resistant foam
	Unsuitable extinguishing media:	water jet
5.2.	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 Cool closed containers exposed to	compressed air breathing apparatus and fireproof clothing. 9 fire with water spray or vapor.
5.4.	Additional information	
	Remove sources of heat and igniti Do not contaminate the environm	

SECTIC	N 6. Accidental release measu	res			
6.1.	Personal precautions, protectiv	e 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 to members without protective equipment. Remove all source sparks and ignition. Do not smoke. Emergency procedures: Mark the area using proper signs.				
6.1.2.	For emergency responders:				
	Wear protective equipment (se	e 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 or clay barriers.			



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Trading name: Product code: NT5-OT-X**			S	ODIUM THIOSULFATE	E, 5% SOLUTION		
		NT5-OT-X** Da		Date of compilation:	21 Dec 2022	Version:	4
6.3.2. Cleaning		up:	materia in tigh ventila person Protec	possible, the substance c al (sand, diatomaceous ea tly closed impermeable cc ted storage rooms until d s authorized by the Minis tion. After disposal of the als with water.	rth, vermiculite). Pla ontainers. Store the isposal. Submit for o try of Environmenta	using inflammable ace the waste material substance in well disposal to the legal al and Nature	
6.3.3.	Other info	ormation:	-				
6.4.	Reference	to other sections					
	-						

SECTIO	ON 7. Handling and storage				
7.1.	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:	Keep away from sources of heat and ignition. Do not smoke.			
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.			
	Measures to protect the environment: Other measures:	Prevent spilling into the sewage system and waterways.			
7.1.2.	Advice on general occupational hygiene:				
	Do not eat, drink or smoke in the workspace. T	horoughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any inco	mpatibilities			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a we ventilated storage rooms, and away from sources of hea 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:	-			



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION					
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

8.1.	Contro	paramete	ers						
Substance					l exposure limit rt term values	Biological limit values			
				ppm	mg/m ³				
-			-		-	-	No information available		
Substa name:	nce								
EC No:			CAS No:	-					
DNEL									
					Industrial				
Route exposi		6	Acute effect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic		
Oral		-		-		-	-		
Inhalat	ion	-		-		-	-		
Derma		-				-			
Critical	physical	parameter	s: solubility, fla	mmabilit	ty, corrosivity:	-			
					Consumer				
Route exposi	-	e	Acute effect local	effe	Acute ect systemic	Chronic effect local	Chronic effect systemic		
Oral		-		-		-	-		
Inhalat	ion	-		-		-	-		
Derma		-		-		-	-		
PNEC									
Enviror	nmental p	rotection	target		PNEC	PNEC			
Fresh v	vater				No info	No information available			
Freshw	ater sedir	nents				No information available			
Marine	water				No info	No information available			
Marine sediments					No info	No information available			
Food chain			No info	No information available					
Microo	organisms	in sewage	e treatment		No info	rmation available			
Soil (ag	gricultural)			No info	rmation available			
Air					No info	rmation available	No information available		



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

8.2.	Exposure controls						
8.2.1.	Engineering measures						
	Substance/mixture related measures to prevent exposure during identified uses:		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.				
	Structural measures to pr exposure:	revent	No information available				
	Organisational measures prevent exposure:	to	Organization of work in order to reduce other worker's influence during work process.				
	Technical measures to pr exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.				
8.2.2.	Personal protection equip	ipment					
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:		tive gloves must be according to the EU Directive 2016/425/EEC and ard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm Break through time: >480 min				
	Other skin protection:		antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).				
8.2.2.3.	Respiratory protection:	filter fo	tive full face mask (EN 136) or half mask (EN 140) equipped with a or organic vapors, type "A" (boiling point >65°C) acording to EN) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No inf	ormation available				
8.2.3.	Environmental exposure	controls					
	Substance/mixture relate measures to prevent expe		See Section 6				
	Structural measures to pr exposure:	revent	Use modern equipment.				
	Organisational measures prevent exposure:	to	Adapt the work process to the required working conditions of the workplace.				
	Technical measures to pr exposure:	event	See Section 6				

SECTION 9. Physical and chemical properties				
9.1.	Information on basic physical and chemical properties			
		Value	Method	



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4	

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

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



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						. age e	
Trading name:		SODIUM	THIOSULFATE	E, 5% SOL	UTION		
Product code:	NT5-OT-X**	Date of compilation: 2		21 Dec 2022		Version:	4
Г	1		1			:	
Route of exposure:	Method	Species	Effective LD ₅₀ /LC ₅₀ or		Exposure time	R	esults
Oral exposure:	No information available	-	LD ₅₀		-		-
Dermal exposure:	No information available	-	LD ₅₀		-		-
Inhalation exposure:	No information available	-	LC ₅₀		-		-

Specific target organ toxicity – single exposure (STOT SE):						
	Specific effects	Target organ	Note			
Oral exposure:	No information available	No information available	-			
Dermal exposure:	No information available	No information available	-			
Inhalation exposure:	No information available	No information available	-			

Respiratory irritation:

No information available

Irritation and corrosion

	Exposure time	Species	Evaluation	Meth od	Note
Skin irritation:	-	-	-	-	-
Eye irritation:	-	-	-	-	-

Sensitization				
Dermal exposure:	No information available			
Inhalation exposure:	No information available			

Symptoms related to	o the physical, o	chemical and	toxicological c	haracteristics
-)				

Oral exposure:No information availableDermal exposure:No information availableInhalation exposure:No information availableEye exposure:No information available

Repeated dose toxicity (subacute, subchronic, chronic)



Subchronic inhalation

Chronic oral

Chronic dermal

No information available

No information available

No information available

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

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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION					
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

		Dose	Exposure time	Spe	cies	Method	Evaluation	Note
Subacute oral	No in availa	formation ble	No information available		rmation lable	No information available	No information available	n -
Subacute dermal	No in availa	formation ble	No information available		rmation lable	No information available	No information available	n -
Subacute inhalation	No in availa	formation ble	No information available		rmation lable	No information available	No information available	n -
Subchronic oral	No in availa	formation ble	No information available	_	rmation lable	No information available	No information available	n -
Subchronic dermal	No in availa	formation ble	No information available		rmation lable	No information available	No information available	n -
Subchronic inhalation	No in availa	formation ble	No information available		rmation lable	No information available	No informatio available	n -
Chronic oral	No in availa	formation ble	No information available	_	rmation lable	No information available	No informatio available	n -
Chronic dermal	No in availa	formation ble	No information available		rmation lable	No information available	No information available	n -
Chronic inhalation	No in availa	formation ble	No information available		rmation lable	No information available	No information available	n -
Creasifia								
Specific	larget	· ·	ty – repeated e ecific effects	xposu		Target organ		Note
Subacute oral		•	ation available		No infor	mation available		-
Subacute derma			ation available			mation available		-
Subacute inhalat	ion	No inform	ation available		No infor	mation available	9	-
Subchronic oral		No inform	ation available		No infor	mation available	9	-
Subchronic derm	nal	No inform	ation available		No infor	mation available	e	-

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:	21 Dec 2022	Version: 4	

Chronic inhalation No informatio		tion available	No information available	-			
	CMR effects ((carcinogenicity	y, mutagenicity, r	eproductive toxicity)			
	Carcinogenic	ity:	Based on av	Based on available data, the classification criteria are not met.			
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification cr	iteria are not met.		
	Genotoxicity:		Based on av	ailable data, the classification cr	iteria are not met.		
	Mutagenicity	in-vivo:	Based on av	ailable data, the classification cr	iteria are not met.		
	Germ cell mu	itagenicity:	Based on av	ailable data, the classification cr	iteria are not met.		
	Reproductive	e toxicity:	Based on av	Based on available data, the classification criteria are not met.			
44.0			ne CMR propertie	25: -			
11.2		on other hazard	•				
11.2 11.2.1.	Information of		ds:				
	Information of Endocrine dis The substance components endocrine according to Commission 2017/2100 of (EU) 2018/60	on other hazard	ds: rties: s not contain to have properties cle 57(f) or ulation (EU) Regulation	25			
	Information of Endocrine dis The substance components endocrine according to Commission 2017/2100 of	on other hazard srupting proper e/mixture does considered disrupting o REACH Artic Delegated reg or Commission 05 at levels	ds: rties: s not contain to have properties cle 57(f) or ulation (EU) Regulation	25. -			

SECTION 12. Ecological information									
12.1. Toxicity	12.1. Toxicity								
Acute toxicity	Dose	Exposure time	Species	Method	Evaluation	Note			
Fish	LC ₅₀	96 hours	No information available	No information available	-	-			
Crustacea:	EC ₅₀	48 hours	No information available	No information available	-	-			
Algae/aquatic plants	IC ₅₀	8 days	No information available	No information available	-	-			
Microorganisms	LC ₅₀	72 hours	-	-	-	-			



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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION					
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

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

12.2. Persistence and degradability

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

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

12.3. Bio	paccumulative potential								
Ра	rtition coefficient: n-oc	tanol/wa	ter (log	Kow):					
Value	Concentration	рН	°C	Method	Evaluation	Note			
-	No information available	-	-	No information available	No information - available				



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Trading name:	S	ODIUM THIOSULFATE		
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VC	alue		Species	М	ethod		Evaluation		Note	
No infor available		No availat	informati ole	on No inforn available	nation		No information available	No info	ormation ava	ilable
	Chronic e	ecotoxicit	Ту.							
	Value		Dose	Exposure time	Spo	ecies	Method	Eva	luation	Note
Chronic	toxicity or	n fish	LC ₅₀	No information available	No infori availa	mation able	No information available	No info availat	ormation ble	-
Chronic toxicity on crustacea (<i>Daphnia</i>) EC ₅₀		EC ₅₀	No information available	No No Information		No information available	No info availat	ormation ble	-	
12.4.	Mobility i Known or		ed distributi	on in environm	nental d	compart	ments:			
	No inforn	nation av	vailable							
	Surface tension:									
	Surface to	ension:				T			1	
	Value		°C	Concentra	ation		Method		N	ote
		Nc on inf	_	Concentra No informa available		No inf	Method ormation avail	able	N	ote
	Value No informatio	Nc on inf	ormation	No informa		No inf		able		ote
	Value No informatio	on inf ava	ormation ailable	No informa		No inf		able		ote
Transpo	Value No informatio available Adsorptic	on inf ava	o ormation ailable prption ficient	No informa						ote
Transpo Soil-wat	Value No informatio available Adsorptic rt H	on inf ava on / desc A/D coef lenry's co	o ormation ailable prption ficient	No informa available	on N		ormation avail		- Method ormation	
	Value No informatic available Adsorptic rt H er No avail ir No	on inf ava on / desc A/D coef lenry's co ir lable	o ormation ailable orption fficient onstant	No informa available log Kow No informatio	on Navion	Evapo	formation avail ration rate	No infe availab	- Method ormation ble ormation	



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Trading	i name:		SODIUM THIOSULFATE		Page 13 01 16				
Produc		NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4				
TTOULC		NIS OF X	Dute of complication.		Version. 4				
12.5.	Results of	PBT and vPvB assessr	nent						
	according	to REACH Article 57(f	t contain components considere) or Commission Delegated reg els of 0.1% or higher.						
12.6.	Endocrine	disrupting properties							
The substance/mixture does not contain components considered to have endocrine disrupting according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Con Regulation (EU) 2018/605 at levels of 0.1% or higher.									
12.7.	Other adv	erse effects							
	No inform	ation available							
		osal considerations							
13.1.	Waste tr	eatment methods							
13.1.1.	Product/Packaging disposal:								
		or disposal to the leg	al person authorized by the Mir	iistry of Environmei	ntal and Nature				
13.1.2.	Waste co	odes/waste designatio	ons according to Law:						
	Waste codes/waste designations according to Law: No information available								
	1								
13.1.3.	Waste tr	eatment – relevant in	formation:						
	No infor	mation available							
13.1.4.	Cowago	disposal relevant in	formation						
15.1.4.	Sewage disposal – relevant information:Waste must not be disposed of into the sewage system.								
	Wasten		or into the sewage system.						
13.1.5.	Other di	sposal recommendati	ons:						
	authoriz the pack	ed by the ministry in a	t's remains into the sewage syst charge. Do not dispose of the pa rs authorized by the ministry in o	ackaging into the s	ewage system. Submit				
13.1.6.	-	Community provisio	ns:						



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Trading name:	S	ODIUM THIOSULFATE	, 5% SOLUTION	
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SECTION 14. Transport information						
Transporting/shipment by road (Transporting/shipment by road (ADR)					
UN number:	Not subject to transport regulations.					
UN proper shipping name:	-					
Transport hazard class(es):	-					
Packing group:	-					
Environmentally hazardous:	-					
Special precautions for user:	-					
Transporting/shipment by rail (R	ID)					
UN number:	Not subject to transport regulations.					
UN proper shipping name:	-					
Transport hazard class(es):	-					
Packing group:	-					
Environmentally hazardous:	-					
Special precautions for user:	-					
Inland waterway transport (ADN))					
UN number:	Not subject to transport regulations.					
UN proper shipping name:	-					
Transport hazard class(es):	-					
Packing group:	-					
Environmentally hazardous:	-					
Special precautions for user:	-					
Transporting/shipment by sea (II	MDG)					
UN number:	Not subject to transport regulations.					
UN proper shipping name:	-					
Transport hazard class(es):	-					
Packing group:	-					
Environmentally hazardous:	-					
Special precautions for user:	-					
Transporting/shipment by air (IC	AO-TI/IATA-DGR)					
UN number:	Not subject to transport regulations.					
UN proper shipping name:	-					
Transport hazard class(es):	-					
Packing group:	-					
Environmentally hazardous:	-					



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Trading name:		SODIUM THIOSULFATE	, 5% SOLUTION	
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4
Special precautions	for user:	-		
Further information	: -			

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

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



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Tradin	ig name:		SODIUM THIOSULFATE, 5% SOLUTION					
Produ	ct code:	NT5-OT-X**	Date of compilation: 21 Dec 2022 Version: 4					
16.2.	16.2. Abbreviations and acronym		ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative					
16.3.	Key literat source of	ure references and data:	-					
16.4.	Classificat 1272/2008	•	used to derive the classification for mixture according to Regulation (EC)					
Classifi	ication		Classification procedure					
-			-					
16.5.	Relevant H	l statements (numb	er and full text)					
	H: -		-					
16.6.	Training a	dvice:	-					
16.7.	Further in	 ** "X" in the product code marks different volumes (different pathe product) r information: We are not responsible for consequences in case of failure to constructions for use or improper use of the product described in material safety data sheet. 						

ANNEX:

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Exposure scenario resulting to Chemical safety assessment