

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 REAGENT, VERHOEFF B						
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	3			

1.1.	Product identifier					
	Trading name: F	ERRI REA	AGENT, V	ERHOEFF B		
	Chemical name: -					
	Product code: F	RV-OT->	X**			
1.2.	Relevant identified uses of the substance or mixture and uses advised against			uses advised against		
	Uses:			For use with spe	ecial staining kits.	
	Uses advised against:			Only the identif	ied uses are advised.	
	Reason why uses advised against:		st:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.		
1.3.	Details of the supplier of the safety data sheet					
	Supplier:		BioGnos	nost Ltd.		
	Address:		Medjugo	iugorska 59, Zagreb		
	Telephone number:		+385 1 2	5 1 2409997		
	Telefax:		+385 1 2	5 1 2404039		
	e-mail of competent pe	erson:	msds@b	ls@biognost.hr		
	National contact:		_			
1.4.	Emergency telephone numbers					
	National Protection and	d Rescue	Director	ate: 112		
	Medical information:			+385	1 2348 342	
	Other information:			-		

SECTIO	ON 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category code: Hazard 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 REAGEN	NT, 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	
		ting properties. tains no components considered to be either persistent, bioaccumulative istent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Co	SECTION 3. Composition/information on ingredients							
CAS/ EC/ Index number	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)				
10025-77-1/ 600-047-2/ -	-	9 – 10 %	ferric chloride hexahydrate	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Chronic 3; H412				

SECTIO	SECTION 4. First aid measures			
4.1.	Description of first aid me	Description of first aid measures		
	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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	Following eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs and persists: Get medical advice.
	Following ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water.
	Self-protection of the first aider	-
4.2.	Most important symptom	ns 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.
	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 immedi	ate medical attention and special treatment needed
_	Treat symptomatically.	

SECTIO	SECTION 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 compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray or vapor.					
5.4.	Additional information					
	_ ·	ing due to increase in pressure. Remove sources of heat and nvironment with extinguishing media.				

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

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. 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:	well venti	ghtly closed and upright set containers in a lated storage rooms at temperatures rom 15 to 25 °C.	
	Packaging materials:	Manufacturer's original packaging.		
	Requirements for storage rooms and vessels:	Keep awa	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:	
SECTIO	N 8. EXPOSURE CONTROLS / PERSONAL PROTE	ECTION
8.1.	Control parameters	

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION								
8.1. Cont	rol pa	rameter	·s					
Substa	ince		CAS N	No		Occupational exposure limit values/short term values		iological limit values
					ppm	mg/m³		
-			-		-	-		-
Substance: -								
EC No: - CAS No: -								
DNEL								
					Industrial			
Route of expos	uro:	Acute effect		Ac	ute effect	Chronic effect		Chronic effect
Noute of expos	sui e.		local	S	ystemic	local		systemic
Oral		-		-		-		-
Inhalation		1		-		-		-
Dermal		-		-		-		-
Critical physica	l para	meters:	solubility, fla	ammabil	ity, corrosivity:	-		
					Consumer			
D		Acu	te effect	Ac	ute effect	Chronic et	fect	Chronic effect
Route of expos	sure:		local	S	ystemic	local		systemic
Oral		-		-		-		-
Inhalation		1		-		-		-
Dermal				-		-		-
PNEC								
Environmental	prote	ction ta	rget		PNEC			



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Fresh water			No information available		
Freshwate	er sediments		No information available		
Marine w	ater		No information available		
Marine se	ediments		No information available		
Food cha	in		No information available		
Microorg	anisms in sewage treatment		No information available		
Soil (agric	cultural)		No information available		
Air			No information available		
8.2.	Exposure controls				
8.2.1.	Appropriate engineering controls	;			
	to prevent exposure during identitied		Use personal protective equipment. Do not eat, drink or moke in the workspace.		
	Structural measures to prevent exposure:	٨	No information available		
	exposure: i Technical measures to prevent s		Organization of work in order to reduce other worker's influence during work process.		
			Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equipment:				
8.2.2.1.	Eye and face protection:		afety glasses tested and approved under appropriate tandards such as EN 166(EU).		
8.2.2.2.	Skin protection:				
	Hand protection:	р	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 the standard EN 374 derived f		
	Other skin protection:	١	No specific protective equipment required.		
8.2.2.3.	Respiratory protection:		Ise when overexposure potential. Improper use of espirators is dangerous.		
8.2.2.4.	Thermal hazards:	١	lo information available		
8.2.3.	Environmental exposure controls	·			
	Substance/mixture related measures to prevent exposure:	See Sec	ction 6		
	Structural measures to prevent exposure:	Use mo	odern equipment.		
	Organisational measures to prevent exposure:	Adapt t workpla	the work process to the required working conditions of the ace.		



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

9.1.	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
	Lover and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	pH:	No information available	No information available
	Kinematic viscosity:	No information available	No information available
	Solubility:	No information available	No information available
	Partition coefficient n-octanol/water (log value):	No information available	No information available
	Vapour pressure:	No information available	No information available
	Density and/or relative density	No information available	No information available
	Relative vapour density:	No information available	No information available
	Particle characteristics:	No information available	No information available
9.2.	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.	Conditions to avoid:	Contact with incompatible materials and temperature extremes.
10.5.	Incompatible materials:	Strong oxidizers.
10.6.	Hazardous decomposition products:	Does not decompose under normal conditions. During fire, thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (as asphyxiant as sufficient concentrations).

11.1.	Informa	ition on toxic	ological effe	ects						
	Acute to	oxicity:								
Route of exposu		Meth	nod	Sp	ecies	Effect Do LD ₅₀ /L ATE _n	se .C ₅₀ or	Exposu time	re	Results
Oral:		No infor availa			-	N inform avail	nation	-		-
Dermal	•	available		N inform avail	nation	-		-		
Inhalation:		No infor availa			-	No information available		-		-
	Specific	target orgai	n toxicity - s	inale e	xposure (STC	OT-SF):				
	- Positive	9-1-9-1		fic effe			Targe	et organ		Note
Oral:		No inform	nation availa				-		-	
Dermal	•	No inform	nation availa	ble			-		-	
Inhalati	on:	No inform	nation availa	ble			-		-	
	Aspirat	ion hazard:			-					
	Irritatio	n and corros			T .					
			Exposure ti		Species		Evaluati	on N	Method	Note
Skin co	rrosion/irr	itati∩n:	lo inform vailable	nation	rabbit	-		-		mild skin irritation
Skin corrosion/irritation: Serious irritation to eyes:			lo inform	mation rabbit		24 h				



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Sensi	tization								
Skin sensitizatio	on:	No inform	nation available.						
Respiratory sensitization:		No inform	nation available.						
Symp	toms rela	ated to ph	ysical, chemical	, and toxicologic	al properties				
Oral exposure:		No kno	own specific syn	nptoms.					
Dermal exposur	re:	No kno	own specific syn	nptoms. May ca	use skin irritatior	ı .			
Inhalation expo	sure:	No kno	own specific syn	nptoms.					
Eye exposure:		No kno	own specific syn	nptoms. May ca	use mild eye irrit	ation.			
Repea	ated dose	e toxicity (subacute, subch	nronic, chronic)					
	Dose		Dose		Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available		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	No information available		
Subacute inhalation	No info	ormation ble	No information available	No information available	No information available	No information available	No information available		
Subchronic oral	No info	ormation ble	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	No information available		
Subchronic inhalation	No information available		No information available	No information available	No information available	No information available	No information available		
Chronic oral	No info	ormation lle	No information available	No information available	No information available	No information available	No information available		
Chronic dermal	No info	ormation ble	No information available	No information available	No information available	No information available	No information available		



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Chronic inhalation	No information available	No information available	No information available	No information available	No information available	No information available
Spe	ecific target organ to	oxicity - repeated	d exposure (ST	OT-RE):		
		Specific ef	fects	Target or	gan	Note
Subacute ora	I r	No information a	available	No information av	ailahle	o information vailable
Subacute der	mal r	lo information a	available	No information av	ailahle 🗀 🗀	o information vailable
Subacute inh	alation 1	No information a	available	No information av	ailahla 🗆	o information vailable
Subchronic o	ral 1	No information a	available	No information av	ailahla	o information vailable
Subchronic d	ermal 1	No information a	available	No information av	ailahla 🗆	o information vailable
Subchronic ir	nhalation N	lo information a	available	No information av	ailahla 🗆	o information vailable
Chronic oral	١	No information a	available	No information av	ailahla	o information vailable
Chronic derm	nal ľ	No information a	available	No information av	ailahla	o information vailable
Chronic inhal	ation \(\)	No information a	available	No information av	ailahla	o information vailable
CM	IR effects (carcinoge	nicity, mutageni	city, reproduc	tive toxicity)		
	rcinogenicity:	,,		n available data, th	ne classification (criteria are not
Mu	itagenicity <i>in-vitro</i> :		Based or met.	n available data, th	ne classification (criteria are not
Ge	notoxicity:		met.	n available data, th		
Mu	itagenicity in-vivo:		met.	n available data, th		
Ge	rm cell mutagenicity	•	met.	n available data, th		
Rep	oroductive toxicity:		Based or met.	n available data, th	e classification (criteria are not
	nmary of evaluat	on of the C	MR No infor	mation available		



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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 informations:
	-

SECTION 12	. Ecologic	al inform	ation						
12.1. To	xicity								
Acute (short toxicity	-term)	Dose	Exposi time		Species	М	lethod	Evaluation	Note
Fish		LC ₅₀	96 hours	S	-	-		-	-
Crustacea:		EC ₅₀	48 hours	S	-	-		-	-
Algae/aquat	ic plants:	IC ₅₀	72 hours		-	-		-	-
Other organ	isms	-	-		-	-		-	-
Chronic (long-term) toxicity		Doza	Exposi time		Species	М	lethod	Evaluation	Note
Fish	h LC ₅₀ 96 hou		96 hours	S	-	-		-	-
Crustacea:		EC ₅₀	48 hours	S	-	-		-	-
Algae/aquatic plants:		IC ₅₀	72 hours		-	-		-	-
Other organ	isms	-	-		-	-		-	-
	rsistence a		lability						
Ab	iotic degra		If I'maa		NA a tha a al			Fralration	NI-1-
Marine water	I No information available			No	Method information availab	ole	Evaluation No information available		Note -
Fresh water	No infor	mation av	ailable	No	information availab	ole	No information available		-
Air	No infor	mation av	ailable	No	information availab	ole	No inf availal	ormation ole	-
Soil No inform		mation available		No	lo information available		No information available		-

Method

Evaluation

Note

Time (days)

% Degradation



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No informati available		No in availa	formation	on					No information available			-		
12.3. Bio	accum	ulativ	re poten	tial										
Oc	tanol-w	vater	partition	n coeff	icient	(log l	Kow)							
Value			ation	рН		°C		ethod		Evalua			Note	
No No information - available available		-	_		No info		on	No informavailable	ation	-				
Bio	oconcei	ntrati	on Facto	or (BCF	······································									
Value Species			es			Method	d		Evaluation	า		Note		
No information No infor available available						o information vailable			No information available		-			
Ch	ronic e	cotos	vicity		-				-					
Valu			Dose	E	xposı time		Spe	cies		Method	:hod Evalua		Not	te
Chronic toxic	city on	fish	LC ₅₀		ormat ilable		No informa availab			o formation vailable		rmation lable	-	
Chronic toxio	•)	EC ₅₀	No info		ion	No informa availab	ation	No in		No information available		-	
12.4. Mo	obility in	n soil												
				stributi	ion in	envir	onmenta	ıl com	partn	nents:				
Sui	rface te	nsion	n:					ı						
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Value		°C				tration			1ethod			Note	
	ormatio ovailable		o formatio vailable	on		inforn ilable	nation		information ailable -					



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	I											
	Adso	orption / desorption										
Transpo	rt	A/D coefficient Henry's constant	log Kow	Evapor		Method	Note					
Soil-wat		No information available	No information available	No information available		No information available	-					
Water-a	No information available No information		No information available	No information available		No information available	-					
Soil-air		No information available	No information available	No informat available		No information available	-					
12.5.	Resul	Its of PBT and vPvB as	ssessment									
						to be either persistent		ve				
	and t	oxic (PBT), or very per	rsistent and very bi	Oaccumui	ative (\	/PvB) at levels of 0.1%	or nigner.					
12.6.	Endo	crine disrupting prop	erties									
				ponents o	onside	ered to have endocrin	e disrupting					
		_				elegated regulation (E	EU) 2017/2100 c	or				
	Comi	mission Regulation (E	U) 2016/605 at leve	215 01 0.1%	or mg	gner.						
12.7.	Othe	r adverse effects										
		nformation available										
SECTION	N 13. [Disposal consideration	ons									
13.1.	Wast	e treatment methods										
13.1.1.	Pro	duct/Packaging dispo	osal:									
		omit for disposal to th tection.	e legal person auth	norized by	the M	inistry of Environmen	tal and Nature					
10.40												
13.1.2.		ste codes/waste desig										
	DIS	posal must be made a	according to officia	regulatio	0115.							
13.1.3.	Wa	ste treatment – releva	nt information:									



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	No information available						
13.1.4.	Sewage disposal – relevan	t information:					
	Waste must not be disposed of into the sewage system.						
13.1.5.	5. Other disposal recommendations:						
	authorized by the ministry	duct's remains into the sewage system. Submit the remains to the collectors in charge. Do not dispose of the packaging into the sewage system. he collectors authorized by the ministry in charge.					
13.1.6.	Relevant Community provi	isions:					
	-						
SECTIO	N 14. Transport information						
	Transporting/shipment by r	oad (ADR)					
UN nun	nber:	Not subject to transport regulations					
UN pro	per shipping name:	-					
Transpo	ort hazard class(es):	-					
Packing	group:	-					
Environ	mental hazards:	-					
Special	precautions for user:	-					
	Transporting/shipment by r	ail (RID)					
UN num	nber:	Not subject to transport regulations					
UN prop	per shipping name:	-					
Transpo	ort hazard class(es):	-					
Packing	group:	-					
Environ	mental hazards:	-					
Special	precautions for user:	-					
	Transporting/shipment by in	nland waterways (ADN)					
UN number:		Not subject to transport regulations					
UN proper shipping name:		-					
Transport hazard class(es):		-					
Packing	group:	-					
Environ	mental hazards:	-					
Special precautions for user:		-					
	Transporting/shipment by s	ea (IMDG)					
UN number:		Not subject to transport regulations					



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UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
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:	Not subject to transport regulations
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
Further information: -	

SECTIO	N 15. Regulatory informa	ation				
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture					
	EU regulations					
	Authorisation and/or res	trictions 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 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);				



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Trade name:	FERRI REAGENT, VERHOEFF B				
Product code:	FRV-OT-X**	Date of compilation:	14 November 2022	Version:	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.	Other information			
16.1.	Indic	ation of changes:	-		
16.2.	Abbreviations and		ADR: Accord relatif au transport international des marchandises dangereuses paroute (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative		
16.3.	Key literature references and source of data: Manufacturer's MSDS file.				
16.4.		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)		
	H:	302 314 315 319 412	Harmful if swallowed. Causes severe skin burns and eye damage. Causes skin irritation. Causes very serious eye irritation. Harmful to aquatic life with long lasting effects.		
16.6.	Train	ing advice:	-		



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Trade name:	FERRI REAGENT, VERHOEFF B				
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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:	FUCHSIN ACID VAN GIESON REAGENT				
Product code:	FAG-OT-X**	Date of compilation:	21 Dec 2022	Version:	6

SECTI	ION 1: Identification of	the substance	e/mixture	and of the company/undertaking		
1.1	Product identifier					
	Trading name:	FUCHSIN A	FUCHSIN ACID VAN GIESON REAGENT			
	Chemical name:	-	-			
	Catalogue number:	FAG-OT-X*	FAG-OT-X**			
1.2	Relevant identified us	Relevant identified uses of the substance or mixture and uses advised against				
	Uses:		For use	with special staining kits.		
	Uses advised against:			e identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3	Details of the supplier	Details of the supplier of the safety data sheet				
	Supplier:		BioGnost Ltd.			
	Address:		Medjugorska 59, Zagreb			
	Telephone number:		+385 1 2409997			
	Telefax.:		+385 1 2404039			
	e-mail of competent p	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:			_		

SECTIO	ON 2. Hazards identification				
2.1	Classification of the substance or mixture				
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)				
	Hazard class and category code: Hazard statements*:				
Not identified as hazardous substance.			-		
2.1.2.	Additional information				
	-				
*For fu	ll text of Hazard- and EU Hazar	d-statements: see S	SECTION 16		
2.2	Label elements				
	Product identification:	FUCHSIN ACID	VAN GIESON REAGENT		
	Identification number:	-			
	Authorization number:	-			
	Hazard pictograms:	-			



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

	Signal word:	-
	Hazard statements:	-
	Precautionary statements:	-
	Supplemetal hazard information (EU):	-
2.3	Other hazards	
	Endocrine Disrupting Prope	rties:
	No known endocrine disruptir	ng properties
	Results of PBT and vPvB ass PBT or a vPvB.	essment : 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)	
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	Description of first aid measures			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.		
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.		
	Following skin contact:	Remove contaminated clothing. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of irritation remain.		
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.		
	Following ingestion:	Rinse the mouth thoroughly with 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.		
	Self-protection of the first aider:	-		



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Trading name:	FUCHSIN ACID VAN GIESON REAGENT				
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	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.		
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 compressed air breathing apparatus and fireproof clothing.				
5.4	Additional information				
	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. Do not contaminate the environment with extinguishing media.				

SECTIO	ON 6. Accidental release measur	res		
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.	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 conta	inment and cleaning up		



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

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	ON 7. Handling and storage				
7.1	Precautions for safe handling				
7.1.1.	Protection measures				
	Measures to prevent fire:		Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.		
	Measures to prevent aerosol and dust 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. The	oroughly was	sh hands after work and before eating.		
7.2	Conditions for safe storage, including any incompatibilities				
	Technical measures and storage conditions:	well ventil	ghtly closed and upright set containers in a ated storage rooms at temperatures ranging 25 °C. Protect from heat and direct sunlight.		
	Packaging materials:	Manufactu	ırer's original packaging.		
	Requirements for storage rooms and vessels:	Keep away	r from food and drink. Keep the containers sed.		
	Advices for storage equipment: Advices for storage equipment:		ge must be made of hard material; floors esistant to chemicals. There must be no drain ly leads into sewage system. Secure proper n.		



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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:	-

8.1 Contro	ol para	meters								
5					О	ccup	ational e	exposure limit		
Substa	nce		CA	CAS No va		•		term values	Biological limit values	
						рр	m	mg/m³	J	
-				-		-			-	
					L			<u> </u>		
Substance nam	e:	-								
EC No:		-	CAS No	:	-					
DNEL										
					1	Indu	strial			
Route of Acu		ıte		Acute			Chronic	Chronic		
exposure:		effect	local	effe	ct syster	nic		effect local	effect systemic	
Oral	-			-			-		-	
Inhalation		•		-			-		-	
Dermal	-			-			-		-	
Critical physica	l parar	meters: s	olubility,	flamm	nability, o	corro	sivity:	-		
					(Cons	umer			
Route of		Ad	cute		Acute			Chronic	Chronic	
exposure:		effec	t local	effe	ct syster	mic		effect local	effect systemic	
Oral		-		-			-		-	
Inhalation		-		-			-		-	
Dermal		-		-						
PNEC										
Environmental	protec	ction tar	get			P	NEC			
Fresh water						no	o inform	ation available		
Freshwater sed	iments	S				no	no information available			
Marine water						no	o inform	ation available		
Marine sedime	nts	· · · · · · · · · · · · · · · · · · ·				no	no information available			



Food chain

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

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no information available

Microorga	anisms in sewage treatment		no information available
Soil (agric	:ultural)		no information available
Air			no information available
8.2	Exposure controls		
8.2.1.	Appropriate engineering controls		
	Substance/mixture related measur prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:		In accordance with Section 7.
	Organisational measures to prever exposure:	nt	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent exp	osure:	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 low levels of concentration in air; protective gas mask that covers entire face in case of higher levels of concentration in air.	
8.2.2.2.	Skin protection		
	Hand protection:	-	otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min
	Other skin protection:	footwe entire t impern	everyday work use cotton clothing (EN 340) and suitable ear, such as rubber boots (EN 20345) or shoes that cover the foot. In case of spilling hazard, use clothing made of neable material suitable for protection from liquid chemicals PVC, himex) and footwear made from the same material.
8.2.2.3.	Respiratory protection:	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	
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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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 phy	rsical and chemical properties		
	Value	Method	
Physical state:	liquid	No information available	
Colour:	red	No information available	
Odour/odour threshold:	no information available/n information available	O No information available	
Melting point / freezing p	point: No information available	No information available	
Boiling point or initial bo point and boiling range:	iling No information available	No information available	
Flammability:	No information available	No information available No information available	
Lover and upper explosion limit: Flash point:	on limit: No information available		
Flash point:	No information available	No information available	
Auto-ignition temperatu	re: No information available	No information available	
Decomposition temperat	rure: 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 noctanol/water (log value)	No information available	No information available	
Vapour pressure:	No information available	No information available	
Density and/or relative d	ensity: No information available	No information available	
Relative vapour density:	No information available	No information available	
Particle characteristics:	No information available	No information available	
Other information			

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



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

	oxicological informati ation on hazard classes		n Regulatio	n (FC) No 1272/	2008		
Acute t		us demica i		1 (20) 110 1272,			
Route of exposure:	Method	Species	pecies Dose LD ₅₀ /LC ₅₀ or ATE _{mix}		Exposure tin	ne Results	
Oral:	No information available	_	No infor available		_	-	
Dermal:	No information available	-	No infor available		-	-	
Inhalation:	No information available	-	No infor available		-	-	
Specific	target organ toxicity -	- single expo	sure (STOT	SE):			
	Specific effects		Target organ		an	Note	
Oral:	No information av	vailable	No	No information available		_	
Dermal:	No information av	ailable/	No information available		ilable	_	
Inhalation:	No information av	vailable	No	information ava	ilable	-	
Aspirat	ion hazard:	No	o informatio	on available.			
Irritatio	n and corrosion						
	Exposure t	ime	Species	Evaluation	Method	Note	
Skin corrosion/irritat	ion:	-		-	-	-	
Serious eye damage/irritatio	on -	-		-	-	-	
Sensitiz	zation						
Skin sensitizatio	n: No infor	mation availa	able.				
Respiratory sens	sitization: No infor	mation availa	able.				



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Trading name:	FUCHSIN ACID VAN GIESON REAGENT						
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Oral exposure:	Harmful i	f swallowed.				
Dermal exposure	e: Harmful i	f absorbed throug	jh skin. May cau	use skin irritation	ı.	
Inhalation expos	ure: Harmful i	f inhaled. May cau	ıse respiratory t	ract irritation.		
Eye exposure:	May caus	e eye irritation.				
Repeate	ed dose toxicity (subacute, subchro	onic, chronic)			
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information	No information available	No information available	No information available	No information available	-
Subacute dermal	No information	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information	No information available	No information available	No information available	No information available	-
Subchronic oral	No information	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information	No information available	No information available	No information available	No information available	-
Chronic oral	No information	No information available	No information available	No information available	No information available	-
Chronic dermal	No information	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information	No information available	No information available	No information available	No information available	-



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

Subacute o	ral	No information available			No information available	-
Subacute d	lermal	No information available			No information available	-
Subacute ir	nhalation	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 ora	al	No information available			No information available	-
Chronic de	rmal	No information available			No information available	-
Chronic inh	nalation	No information available			No information available	-
CN	MR effects (c	arcinogenicity; mutagenicit	y; re	productive t	oxicity)	
Ca	arcinogenicit	y:	Bas	sed on availa	ble data, the classification o	criteria are not met.
М	utagenicity <i>ii</i>	n vitro:	Bas	sed on availa	ble data, the classification o	criteria are not met.
Ge	Genotoxicity:			sed on availa	ble data, the classification o	criteria are not met.
М	utagenicity <i>ii</i>	n vivo:	Bas	sed on availa	ble data, the classification o	criteria are not met.
Ge	erm cell muta	agenicity:	Bas	sed on availa	ble data, the classification o	criteria are not met.
Re	eproductive t	oxicity:	Bas	sed on availa	ble data, the classification o	criteria are not met.
	ummary of operties:	evaluation of the CI	MR	Based on a met.	available data, the classific	ation criteria are not
11.2 In	formation or	other hazards:				
11.2.1. En	ndocrine disr	upting properties:				
co dis Ar res Re	omponents c srupting pro ticle 57(f) gulation (EU	e/mixture does not cont onsidered to have endocr operties according to REA or Commission Delegar 1) 2017/2100 or Commiss 1) 2018/605 at levels of 0.1%	ine CH ted ion			
11.2.2. Ot	ther informat	tions:				

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 GIESON 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	-	_	-	-	-	-

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	-

О:	-	-1	_			-1	_		O	
к	\sim	$\boldsymbol{\alpha}$	Δ	\mathbf{n}	\mathbf{c}	$\boldsymbol{\alpha}$	2	TΙ	\sim	n

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



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Tradin	g name:		FUCHSIN ACID VAN GIESON REAGENT									
Produc	ct code:	FAG-	T-X**		Date	of co	mpilatio	on: 21 De	c 2022	\	Version:	6
12.3	Bioaccum	•										
			rtition coeff							0 0 0 0 0 0		
Valu		ncentra	•	H	°C		ethod	Evalu	ation		Note	
-	-		-		-	-		-		-		
	Bioconcer	ntration	factor (BCF)									
٧	'alue		Species		<u> </u>	Method	d	Evaluati	on		Note	
	rmation	No	inform	ation	No info		on	No informati	on	_		
availab	le	availak	ole		availab	le		available				
	Chronic e	cotoxicit	·V									
	1	COTOXICI	-	Exc	osure							
	Value		Dose	time		Sp	ecies	Method	Evalu	ation	Note	<u>,</u>
				No		No		No	No			
Chronic	toxicity on	tish	LC ₅₀	intor			mation able	information available	information available		-	
				No		No		No	No			
	toxicity on ea (<i>Daphnic</i>		EC ₅₀	1	mation		mation	information	informa		_	
				avail	able	availa	able	available	availab	le		
12.4	Malailitus	a ac:l										
12.4	Mobility in		ed distributi	on in a	nuironm	ontal	compart	monts:				
	No inform	•		OHIH	environin	ieritai (compart	ments.				
	Surface te		, anabic									
	Value	1131011.	°C	С	oncentra	tion		Method			Note	
	No	No										
	informatio		ormation		informa ailable	tion	No inf availab	ormation ole	_			
	available	av	ailable									
									<u> </u>			



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Trading name:		FUCHSIN ACID VAN GIESON REAGENT							
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	Adsorption / des	sorption				
Transpo	rt	efficient constant	log Kow	Evaporation rate	Method	Note
Soil-wat	er No information available		No information available	No information available	No information available	-
Water-a	ir No available	information	No information available	No information available	No information available	-
Soil-air	No available	information	No information available	No information available	No information available	-
12.5		mixture does ı	not contain compo			isrupting properties
	_		7(f) or Commission evels of 0.1% or h	n Delegated regulat igher.	ion (EU) 2017/2100	or Commission
12.6.	Endocrine disrup	pting properti	es			
	according to REA	ACH Article 5	•	n Delegated regulat		isrupting properties or Commission
12.7	Other adverse et	ffects				
	No further releva	ant information	on available.			
SECTIO	N 13. Disposal co	onsideration	s			
13.1	Waste treatme					
13.1.1.	Product/Packa	aging disposa	<u>:</u>			
	Submit for dis Protection.	posal to the l	egal person autho	rized by the Ministr	y of Environmental	and Nature
13.1.2.			tions according to			
	15 01 10*: Pac substances	kaging that c	ontains residual ha	azardous substance	s or is contaminated	d with hazardous
13.1.3.	Waste treatme	ent – relevant	information:			
	No information					
12.1.4	C	11	·			
13.1.4.	Sewage dispos	sai – reievant	information:			



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Trading name:					
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	Waste must not be disposed of into the sewage system.					
13.1.5.	Other disposal recommendations:					
	authorized by the ministry in o	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 provision	ns:				
	Disposal must be made accord	ling to official regulations.				
SECTION	14 TRANSPORT INFORMATION	ON CONTRACTOR OF THE CONTRACTO				
-	Transporting/shipment by road	(ADR)				
UN numb	per:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing o	group:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
-	Transporting/shipment by rail (R	RID)				
UN numb	oer:	Not subject to transport regulations				
UN proper shipping name:		-				
Transpor	t hazard class(es):	-				
Packing o	group:	-				
Environm	entally hazardous:	-				
Special p	recautions for user:	-				
	Inland waterway transport (ADN)				
UN numb	oer:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing o	group:	-				
Environm	entally hazardous:	-				
Special precautions for user:		-				
-	Transporting/shipment by sea (I	MDG)				
UN number:		Not subject to transport regulations				
UN prope	er shipping name:	-				
Transpor	t hazard class(es):	-				
Packing group:		-				



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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: -	

5.1 Safet	Safety, health and environmental regulations/legislation specific for the substance or mixture				
EU re	egulations				
Auth	uthorization and/or restrictions of use				
Auth	orizations:	-			
Restr	rictions:	-			
Othe	r EU regulations:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			



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	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety 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.	** "X" in the product code marks different volumes (different p the product) We are not responsible for consequences in case of failure to c instructions for use or improper use of the product described i material safety data sheet.	

ANNEX: Exposure scenario resulting to chemical safety assessment	
-	



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

SECTIO	SECTION 2. Hazards identification				
2.1.	Classification of the substance	Classification of the substance or mixture			
2.1.1.	Classification according to Reg	ulation (EC) No	o. 1272/2008 (CLP)		
	Hazard class and catego	ry code:	Hazard statement*:		
	Flam. Liq. 2		H225		
2.1.2.	Additional information				
	-				
*For ful	ll text of Hazard- and EU Hazard-	statements: see	e Section 16.		
2.2.	Label elements				
	Product identification:	HEMATOXYLIN, VERHOEFF A			
	Identification number:	-			
	Authorisation number:	-			



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	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. 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/	01-2119457610-43- 0147	80 - 100 %	ethanol	Flam. Liq. 2; H225			

SECT	SECTION 4. First aid measures				
4.1.	Description of first aid measu	res			
	General notes:	If the suggested first aid measures do not prove sufficient, seek medical attention.			
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. In case of difficult breathing, provide the afflicted person with oxygen.			
	Following skin contact:	Remove 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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	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	lical attention and special treatment needed
	No information available	

SECT	ECTION 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 v	vith water spray. Collect contaminated fire fighting water separately. Do ent with extinguishing media.				

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



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	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 compressed air breathing apparatus, a set for protecting the body from heat dissipation (fireproof clothing).					
6.2.	Environmental precautions:					
	Use sand protective barrier to prevent further spillage of chemicals. Prevent environmental pollution by not allowing the chemicals to enter the sewage system, surface water or groundwater.					
6.3.	Methods and materials for containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures:	Sand protective barrier or barriers made of similar materials				
6.3.2.	Cleaning up:	Sawdust, sand, mineral adsorbents				
6.3.3.	Other information:	Secure proper ventilation. Contact the responsible person; in case of larger spills and possible environmental pollution contact National Protection and Rescue (112). Do not use incompatible materials (see Section 10).				
6.4.	Reference to other sections					
	Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.					

SECTIO	DN 7. Handling and storage					
7.1.	Precautions for safe handling					
7.1.1.	Protection measures					
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of ignition and heat. Do not use tools that cause sparks. Do not smoke.				
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.				
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.				
	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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	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Protect from heat and direct sunlight.
	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

SECTION 8. Exposure controls/personal protection							
8.1. Control para	meters						
Substance		CAS No		Occupational exposure limit values/short term values			Biological limit values
					ppm mg/		
Ethanol	64-17-5		5	100	0/-	1900/-	No information available
Substance:		_					
EC No:		-		CASI	No:	-	
DNEL							
Industrial							
Route of exposure:	Acu	cute Acut		!	Chronic		Chronic
Route of exposure.	effect	local	effect syst	emic	effect local		effect systemic
Oral	-		-		-		-
Inhalation	1900 mg (ethanol	*	-		-		380 mg/m³ (ethanol)
Dermal	-		-		-		343 mg/kg (ethanol)
Critical physical param	eters: solu	ıbility, fl	ammability, o	corrosiv	vity:	-	
			С	onsum	er		
Route of exposure:	Acu	te	Acute			Chronic	Chronic
Route of exposure:	effect	local	effect syst	emic	e	ffect local	effect systemic
Oral	-		-		-		87 mg/kg bw/day (ethanol)



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ntal protect r sediments	950 mg/m³ (ethanol) - ion target	-	Date of compi	-		Nov 2022 114 mg/m ³ 206 mg/kg		3
ntal protect r sediments	950 mg/m³ (ethanol)		-			114 mg/m ³	³ (ethanol)	
r sediments ter	(ethanol) -		-					
r sediments ter	ion target	-				206 mg/kg	(ethanol)	
r sediments ter	ion target		PNFC				<u> </u>	
r sediments ter	ion target		PNFC					
sediments			TIVEC					
ter			0.96 mg/l (ethano	ol)				
			3.6 mg/kg (ethan	nol)				
Marine water Marine sediments			0.79 mg/l (ethanol)					
food chain			2.9 mg/kg (ethanol)					
1			380-720 mg/kg (ethanol)					
nisms in sev	vage treatment		580 mg/l (ethanol)					
ıltural)			0.63 mg/kg (ethanol)					
			no information a	vailable				
Exposure controls								
Appropriate	e engineering con	trols						
measures to	prevent exposur	е			the worl	kspace. Use	personal	
Structural measures to prevent exposure:			No information available					
_			Organization of work in order to reduce other worker's influence during work process.				ıce	
Technical m exposure:	easures to prever	nt	See Section 7.2					
Personal pr	otection equipme	nt						
Eye and fac	e protection:	of co	oncentration in air;	protective g	jas mask	that cover		
Skin protec	tion							
Pro			tective gloves must be according to the EU Directive 2016/425/EEC I standard EN 374. Glove material: nitrile rubber Glove thickness: ≥0.50 mm				EEC	
	Exposure con Appropriate Substance/Imeasures to during iden Structural mexposure: Drganisation or exposure: Personal procession protection of the prosure: Personal procession protection of the protection of	Exposure controls Appropriate engineering con Substance/mixture related measures to prevent exposur during identified uses: Structural measures to prevent exposure: Drganisational measures to prevent exposure: Eechnical measures to prevent exposure: Personal protection equipme Eye and face protection:	Exposure controls Appropriate engineering controls Substance/mixture related measures to prevent exposure during identified uses: Structural measures to prevent exposure: Organisational measures to prevent exposure: Fechnical measures to prevent exposure: Personal protection equipment Eye and face protection: Safe of co	380-720 mg/kg (hisms in sewage treatment Sewage (ethance) Do not eat, drink or protective equipment No information avenue during work processory Sewage Section 7.2 Sewage Sew	asso-720 mg/kg (ethanol) assms in sewage treatment blural) consists in sewage treatment con	380-720 mg/kg (ethanol)	380-720 mg/kg (ethanol)	380-720 mg/kg (ethanol) 1580 mg/l (ethanol) 1580 mg/l (ethanol) 1580 mg/l (ethanol) 1580 mg/l (ethanol) 1580 mg/kg (ethanol) 1680 mg/kg (ethanol) 1



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	Other skin protection:	During everyday work use cotton clothing (EN 340) and suitable footwear, such as rubber boots (EN 20345) or shoes that cover the entire foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid chemicals (Viton, PVC, himex) and footwear made from the same material.				
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipped with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed GVI.				
8.2.2.4.	Thermal hazards:	No information ava	ilable			
8.2.3.	Environmental exposure co	ntrols				
	Substance/mixture related r exposure:	measures to prevent	See Section 6			
	Structural measures to prev	ent 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	ent exposure:	See Section 6			

9.1.	Information on basic physical and	l 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
	Lover 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
	рН:	no information available	no information available
	Kinematic viscosity:	no information available	no information available
	Solubility:	no information available	no information available
	Partition coefficient n- octanol/water (log value):	no information available	no information available
	Vapour pressure:	No information available	no information available



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	Density and/or relative density:	no information available	no information available		
	Relative vapour density:	no information available	no information available		
	Particle characteristics:	no information available	no information available		
9.2.	Other information				
	_				

SECTIO	SECTION 10.: Stability and reactivity				
10.1.	Reactivity:	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.			

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

Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral:	-	rat	LD ₅₀	-	7.060 mg/kg (ethanol)
Dermal:	-	rabbit	LD ₅₀	-	>20.000 mg/kg (ethanol)
Inhalation:	-	rat	LC ₅₀	4 h (ethanol)	>8.000 mg/l (ethanol)

Specific target organ	toxicity - single ex	posure (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



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Product code:	roduct code: HEMV-OT-X** Date of co		te of compi	lation:	14 Nov 2022	Version: 3		
Irritation ar	nd co	rrosion						
3		Exposur	e time	Speci	es	Evaluation	Method	Note
Skin corrosion/irritat	ion	No informat available		No informat available		o information vailable	No information available	-
Serious eye damage/irritation		No informat available		No informat available		o information vailable	No information available	-
Sensitization								
Skin sensitizatio	n:	No infor	mation	available				
Respiratory sensitization:		No infor						
Cumptoms ro	latad	l to the phy	ical ch	omical and to	vicelegical c	haractoristics		
Oral exposure: sensation In case			g may c higher vomitin	ause irritatior levels of conc	of mucosa, entration ma	tingling sensa ly cause nause	tion in the mouth ea, abdominal pair preathing. Higher l	n and vomiting.
Dermal exposur	e:	_	irritation. After short exposure, resorption effects are not likely. Long-term exposure ause drying, cracking and tingling sensation of skin.					
Inhalation exposure:			ation of large amounts of vapors in inadequately ventilated perimeter may cause ning, sneezing, headache and nausea.					
Eye exposure:		Direct eye contact may cause slight to moderate irritation, lacrimation and burning sensation.						
Repeated do	se to	xicity (subac	ute, sul	ochronic, chro	onic)	ì	i	f
		Dose	Expo	osure time	Species	Method	Evaluation	Note
Subacute oral		ormation ailable	No availal	information ble	No information available	No informatio available	n informatio available	n -
Subacute dermal	intormation		No availat	information ble	No information available	No informatio available	No informatio available	n -
Subacute inhalation No information available		No availal	information ble	No information available	No informatio available	No n informatio available	n -	
Subchronic oral		ormation iilable	No availal	information ble	No information available	No informatio available	No informatio available	n -



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Product code	e. HEIVIV-O	I-X Da	te or compr	iation. 12	+ INOV 2022	version.	
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	on -	
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	on -	
Chronic oral	No information available	No information available	No information available	No information available	No informatio available	on -	
Chronic dermal	No information available	No information available	No information available	No information available	No informatio available	on -	
Chronic inhalation	No information available	No information available	No information available	No information available	No informatio available	on -	
Specific targ	get organ toxicity	/ - repeated exposure		- :		N	
Code		Specific effects		Target organ No information available		Note	
Subacute dara		No information available No information available				-	
Subacute derr Subacute inha		No information available		- C		-	
Subchronic or				No information available		_	
Subchronic de		No information available		No information available		-	
Subchronic in		No information available No information available		No information available		-	
Chronic oral	iaiatiOH	No information avail		No information available		_	
Chronic derma	al	No information avail		No information		_	
Chronic inhala		No information avail		No information		_	
		1 2 2 2 2 2 2 7 7 6 1	***			<u> </u>	
CMR effects	s (carcinogenicity	, mutagenicity, reprod	luctive toxicit	:y)			
Carcinogen	icity:		No info	No information available			
Mutagenici	ty in-vitro:		No information available				
Genotoxicit	y:		No info	rmation available	,		
Mutagenicity <i>in-vivo</i> :			No information available				
Germ cell m	nutagenicity:		No info	rmation available			
Reproductiv	ve toxicity:		No info	rmation available	1		
		CNID					
Summary o	τ evaluation of th	ne CMR properties:	No info	rmation available			



water

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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 informations:
	-

SECTION 12. Ecological 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 organisms	-	-	-	-	-	-	

12.2. Persistence and degradability Abiotic degradation Degradation half-lives Method Evaluation Note Marine No information available No information Technology Te

available

available



Trade name:

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_						EIVIA I OAT LIIN,				
Product cod	de:	HEMV-OT	-X**		Da	ite of compilat	ion:	14	Nov 2022	Version:
Fresh water	No ir	nformation av	ailable			No information No infor available available		informati lable	on -	
Air	No ir	nformation av	ailable		No info	ormation ble		informati lable	on -	
Soil	No ir	nformation av	ailable		No info availab	ormation ole		informati lable	on -	
Biodegrad	lation									
% Degradati		Time (da	avs)		N	Method		Evaluation	on .	Note
- -	_		.,, -,	_			_		_	
				<u> </u>			i		i	
12.3. l	Bioacc	umulative po	tential							
(Octano	ol-water parti	tion co	efficier	nt (log l	Kow)				
Value	Сс	oncentration		рН	°C	Method		Eval	uation	Note
	_		-		_	-		-	-	
Riocon	centra	tion Factor (E	3CF)							
Value	leciitia	Speci				Method		Fva	lluation	Note
No information available	N	o information				ormation availab	ole	No infor	mation	-
Chronic ed	cotoxic	ity								
Value		Dose	Ехр	osure	time	Species	M	lethod	Evaluatio	n Not
Chronic toxic	city	LC ₅₀	No in	iforma able	tion	No information available		rmation lable	No informatio available	n -
011 11311				f 0 1100 0	tion	No information	No info	rmation	No informatio	n -



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	Surface tension:	1		1		T		1	
	Value		°C	Со	ncentration	Method			Note
	No information available	No information available			available		nation ble	-	
Adso	rption / desorption								
Transpo	A/D coeffi Henry's cor		log Kov	V	Evaporation	n rate	N	lethod	Note
Soil-Wa	ter No inf available	ormation	No informa available	ation	No informat available	ion	No inf availal	ormation ole	-
Water-A	Air No inf available	ormation	No informa available		No informat available	ion	No inf availal	ormation ole	-
Soil-Air	No inf available	ormation	No informa available	ation	No information available		No inf availal	ormation ole	-
12.5.	Results of PBT and	vDvR acco	ssmont						
12.3.	Based on available			s not a	contain any DE	RT or vP	VR subs	tances	
	based off available	data, tric	oroduct does	3 1101	Contain any 1 L	71 OI VI	VD 3003	tarices.	
12.6.	Endocrine disruptii	ng propert	ies						
12.6.	Endocrine disruptii Based on available			endo	ocrine disrupto	ors.			
12.6.				endo	crine disrupto	ors.			
12.6. 12.7.		data, does		endo	crine disrupto	ors.			
	Based on available	data, does	s not contain	endo	crine disrupto	ors.			
12.7.	Other adverse effects	data, does	s not contain	endo	crine disrupto	ors.			
12.7. SECTIO	Other adverse effe No adverse effects N 13. Disposal cons	data, does	s not contain	endo	ocrine disrupto	ors.			
12.7. SECTIO	Other adverse effects	data, does	s not contain	endo	ocrine disrupto	ors.			
12.7. SECTIO 13.1.	Other adverse effe No adverse effects N 13. Disposal cons	data, does cts are expec	ted.	endo	ocrine disrupto	ors.			
12.7. SECTIO 13.1.	Other adverse effe No adverse effects N 13. Disposal cons Waste treatment m	data, does cts are expect sideration nethods	ted.				of Enviro	onmental an	d Nature
12.7. SECTIO	Based on available Other adverse effe No adverse effects N 13. Disposal cons Waste treatment m Product/Packagin Submit for dispos	data, does cts are expect sideration nethods g disposal al to the le	ted. s egal person a	author	ized by the M		of Enviro	onmental an	d Nature



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13.1.3.	Waste treatment – relevant inf	ormation:			
	No information available				
13.1.4.	Sewage disposal – relevant inf	ormation:			
	Waste must not be disposed o	of into the sewage system.			
13.1.5.	1.5. Other disposal recommendations:				
	authorized by the ministry in c	's remains into the sewage system. Submit the remains to the collectors harge. Do not dispose of the packaging into the sewage system. Submit s authorized by the ministry in charge.			
13.1.6.	Relevant Community provision	ns:			
	Disposal must be made accord	ding to official regulations.			
SECTION	N 14. Transport information				
Tran	sporting/shipment by road (ADI	R)			
UN num	ber	1170			
UN prop	er shipping name:	Ethanol solution			
Transpor	t hazard class(es):	3			
Packing	group:	П			
Environn	nental hazards:	No information available			
Special p	precautions for user:	-			
Tran	sporting/shipment by rail (RID)				
UN num	ber:	1170			
UN prop	er shipping name:	Ethanol solution			
Transpor	t hazard class(es):	3			
Packing	group:	П			
Environn	nental hazards:	No information available			
Special p	recautions for user:	-			
Tran	sporting/shipment by inland wa	terways (ADN)			
UN num	ber:	1170			
UN prop	er shipping name:	Ethanol solution			
Transpor	t hazard class(es):	3			
Packing	group:	II			
Environn	nental hazards:	No information available			
Special p	recautions for user:	-			
Tran	sporting/shipment by sea (IMD0				



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

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



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

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

	ANNEX: Exposure scenario resulting to Chemical safety assessment
I	-



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

SECTIO	SECTION 2. Hazards identification						
2.1	Classification of the substance or mixture						
2.1.1	Classification according to Regulation (EC) No 1272/2008 (CLP)						
	Hazard class and cat	egory code:	Hazard statements*:				
	Not identified as hazardous	substance.	-				
2.1.2.	Additional information						
	-						
*For fu	ıll text of Hazard- and EU Haza	rd-statements: see S	SECTION 16				
2.2	Label elements						
	Product identification:	IODINE SOLUTI	ON, VERHOEFF C				
	Identification number:	-					
	Authorization number:	-					
	Hazard pictograms:	-					



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	Signal word:	-		
	Hazard statements:	-		
	Precautionary statements:	-		
	Supplemetal hazard information (EU):	-		
2.3	Other hazards			
	Endocrine Disrupting Propert	ties:		
	No known endocrine disrupting	g 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. 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	-			

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



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	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					
	-					

SECTION	SECTION 5. Firefighting measures						
5.1	Extinguishing media	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 subs	stance or mixture					
	Hazardous combustion products: r	no information available					
5.3	Advice for firefighters						
	Use a self-contained open-circuit co	mpressed air breathing apparatus and fireproof clothing.					
5.4	Additional information						
	Cool endangered receptacles with wo	rater spray. Collect contaminated fire fighting water separately. Do not extinguishing media.					

SECTIO	SECTION 6. Accidental release measures					
6.1	Personal precautions, protective equipment and emergency procedures					
6.1.1.	For non-emergency personnel					
	Protective equipment:	Use personal protective equipment (see Section 8).				
	Accident prevention methods: Evacuate members of all non-essential personnel and those members of all non-essential personnel and all non-essential personnel and all non-essential personnel and all non-essential personnel and all non					
	Emergency procedures:	Mark the area using proper signs.				
6.1.2.	For emergency responders:					
	Use protective equipment; in a (see Section 8).	case of inadequate ventilation use adequate airways protective equipment				
6.2	Environmental precautions:					
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.					
6.3	Methods and material for containment and cleaning up					
6.3.1.	Bunding, covering of drains; capping procedures: Sand protective barrier or barriers made of similar materials.					



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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	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. Th	oroughly was	sh hands after work and before eating.				
7.2	Conditions for safe storage, including any incon	npatibilities					
	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	rer'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 dithat directly leads into sewage system. Secure prop ventilation.					



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	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 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 No			Occupational exposure limit values/short term values			Biological limit values	
					þ	ppm	mg/m³		
-			-			-	-	-	
Substance name:	-								
EC No:	-	CAS No	:	_					
DNEL									
					Ind	ustrial			
Route of	Acu	ıte		Acut	te		Chronic		Chronic
exposure:	effect	local	ocal effect systemi		stemic	effect local			effect systemic
Oral	-		-			-			-
Inhalation	-		-			-		-	
Dermal	-		-			-			-
Critical physical par	rameters: s	olubility,	flamm	nabilit	ty, corr	osivity:	-		
					Con	sumer			
Route of	Ad	cute		Acut	te	Chronic			Chronic
exposure:	effec	t local	effe	ct sys	stemic	c effect local			effect systemic
Oral	-		-			-			-
Inhalation	-		-			-			-
Dermal			-						
PNEC									
Environmental protection target					PNEC				
Fresh water						no inform	ation available	ļ	
Freshwater sediments					no information available				
Marine water					no information available				
Marine sediments					no information available				



Food chain

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no information available

Microorga	anisms in sewage treatment		no information available		
Soil (agric	cultural)		no information available		
Air			no information available		
8.2	Exposure controls				
8.2.1.	Appropriate engineering controls				
	Substance/mixture related measur prevent exposure during identified		Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.		
	Structural measures to prevent exposure:		In accordance with Section 7.		
	Organisational measures to prever exposure:	nt	Organization of work in order to reduce other worker's influence during work process.		
	Technical measures to prevent exp	Secure proper workspace ventilation in order to keep exposure: concentration levels in air below permitted levels. Se 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:		otective gloves have to satisfy the specification of tion (EU) 2016/425 and the related standard EN 374. Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min		
	Other skin protection:	During everyday work use cotton clothing (EN 340) and suit footwear, such as rubber boots (EN 20345) or shoes that coveries foot. In case of spilling hazard, use clothing made of impermeable material suitable for protection from liquid cheroviton, PVC, himex) and footwear made from the same materials.			
8.2.2.3.	Respiratory protection:	Protective full face mask (EN 136) or half mask (EN 140) equipp with a filter for organic vapors, type "A" (boiling point >65°C) acording to EN 14387) used when concentration levels exceed (
8.2.2.4.	Thermal hazards:		ormation available		
8.2.3.	Environmental exposure controls				
	Substance/mixture related measures to prevent exposure:	See Se	ction 6		



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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

Colour: dark brown Colour: characteristic /no information available characteri	Information on basic physic	cal and chemical properties	
Colour: dark brown Characteristic / no information available Characteristic / 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 Plammability: No information available No information available Lover and upper explosion limit: No information available No information available Flash point: No information available No information available Plash point: No information available No information available No information available Pecomposition temperature: No information available No information available Ph: No information available No information available No information available Solubility: No information available No information available No information available Partition coefficient noctanol/water (log value): No information available No information available Density and/or relative density: No information available No information available Relative vapour density: No information available No i		Value	Method
Odour/odour threshold: Melting point / freezing point: No information available	Physical state:	liquid	No information available
Melting point / freezing point: Melting point / freezing point: No information available	Colour:	dark brown	No information available
Boiling point or initial boiling point and boiling range: Flammability: Lover and upper explosion limit: No information available	Odour/odour threshold:	-	No information available
Flammability: No information available No information available Lover and upper explosion limit: No information available Flash point: No information available	Melting point / freezing po	int: No information available	No information available
Lover and upper explosion limit: No information available Flash point: No information available		No information available	No information available
Flash point: Auto-ignition temperature: Decomposition temperature: No information available	Flammability:	No information available	No information available
Auto-ignition temperature: Decomposition temperature: No information available No information available PH: No information available	Lover and upper explosion	limit: No information available	No information available
Decomposition temperature: No information available	Flash point:	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 noctanol/water (log value): No information available Relative vapour density: No information available	Auto-ignition temperature:	No information available	No information available
Kinematic viscosity: No information available No information available No information available No information available Partition coefficient n- octanol/water (log value): Vapour pressure: No information available	Decomposition temperatur	re: No information available	No information available
Solubility: Partition coefficient n- octanol/water (log value): Vapour pressure: Density and/or relative density: No information available	pH:	No information available	No information available
Partition coefficient n- octanol/water (log value): Vapour pressure: No information available	Kinematic viscosity:	No information available	No information available
octanol/water (log value): Vapour pressure: No information available	Solubility:	No information available	No information available
Density and/or relative density: No information available Relative vapour density: No information available No information available		No information available	No information available
Relative vapour density: No information available No information available	Vapour pressure:	No information available	No information available
	Density and/or relative der	sity: No information available	No information available
Particle characteristics: 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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10.2	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature).
10.3	Possibility of hazardous reactions:	No information available
10.4	Conditions to avoid:	No information available
10.5	Incompatible materials:	No information available
10.6	Hazardous decomposition products:	No information available

	kicological information on hazard classe		n Regulation	(FC) No 1272	2/2008	
Acute to		3 d3 demied ii	regulation	1 (20) 110 1272	-, 2000	
Route of exposure:	Method	:hod Species		D ₅₀ /LC ₅₀ or ΓΕ _{mix}	Exposure tii	me Results
Oral:	No information available	-	No inforr available	nation	_	-
Dermal:	No information available	-	No inforr available	nation	-	-
Inhalation:	No information available	-	No inforr available	mation	-	-
Specific	target organ toxicity		sure (STOT :		man	Note
Oral:	No information a	Specific effects		Target organ No information available		- Note
Dermal:	No information a			information av	_	
Inhalation:	No information a			No information available		_
milation.	No information e	- vanabie	140	mornation at	ranabic	
Aspiratio	on hazard:	No	o informatio	n available.		
Irritation	and corrosion				:	
	Exposure	time	Species	Evaluatio	n Method	Note
Skin corrosion/irritation	on:	-		-	-	-
Serious eye damage/irritation	-	-		-	-	-
Sensitiza	ation					
Skin sensitization	i i	rmation availa	able.			
Respiratory sensi		rmation availa				



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9,p.co	ms rela	ited to the ph	nysical, chemic	al and toxicolog	gical characterist	ics	
Oral exposure:		No informati	on available.				
Dermal exposure	e:	No informati	on available.				
Inhalation expos	ure:	No informati	on available.				
Eye exposure:		No informati	on available.				
Repeate	ed dose	toxicity (sub	acute, subchro	onic, chronic)			
		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No availa	information able	No information available	No information available	No information available	No information available	-
Subacute dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Subacute inhalation	No availa	information able	No information available	No information available	No information available	No information available	–
Subchronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Subchronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic oral	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic dermal	No availa	information able	No information available	No information available	No information available	No information available	-
Chronic inhalation	No availa	information able	No information available	No information available	No information available	No information available	-



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Subacute oral	No information availa	ble	No information available	-			
Subacute dermal	No information availa	ble	No information available	-			
Subacute inhalati	on No information availa	ble	No information available	-			
Subchronic oral	No information availa	ble	No information available	-			
Subchronic derma	No information availa	ble	No information available	-			
Subchronic inhala	tion No information availa	ble	No information available	-			
Chronic oral	No information availa	ble	No information available	-			
Chronic dermal	No information availa	ble	No information available	-			
Chronic inhalation	n No information availa	ble	No information available	-			
CMR effe	ects (carcinogenicity; mutager	nicity; re	eproductive toxicity)				
Carcinog	enicity:	Ва	sed on available data, the classification	criteria are not met.			
Mutager	Mutagenicity in vitro:		Based on available data, the classification criteria are not met.				
Genotox	icity:	Ва	sed on available data, the classification	criteria are not met.			
Mutager	nicity <i>in vivo</i> :	Ва	sed on available data, the classification	criteria are not met.			
Germ ce	ll mutagenicity:	Ва	Based on available data, the classification criteria are not met.				
Reprodu	ctive toxicity:	Ва	Based on available data, the classification criteria are not met.				
Cummon	, of avaluation of the	CMD	Deced on available data the classifi	antino suitorio ara not			
Summar propertie		CIVIK	Based on available data, the classifi met.	cation criteria are not			
			at.				
11.2 Informat	ion on other hazards:						
11.2.1. Endocrin	e disrupting properties:						
compone disruptin Article regulatio	estance/mixture does not cents considered to have end g properties according to I 57(f) or Commission Dele on (EU) 2017/2100 or Common (EU) 2018/605 at levels of C	locrine REACH egated nission					
3	formations:						

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, V	ERHOEFF C		
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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 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	-

			on

1 1 3 1 1 1				
% Degradation	Time (days)	Method	Evaluation	Note
No information available				



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Trading	g name:			IODINE SOLUTION, VERHOEFF C									
Produc	ct code:		JODV	-OT-X**	•	Date	e of co	mpilati	on: 21 De	ec 2022	,	Version:	3
			1										
12.2	12.3 Bioaccumulative potential												
12.3			•		officient	(log Kov	۸						
Valu	1		centrat		efficient pH	°C		ethod	Evalu	ation	2 0 0 0 0 0 0	Note	
- vaiu	e	COI	icentrat		•		-	etriou	- Evalu	ation	-	Note	
									_				
					<u> </u>				!				
	Biocon	cent	ration 1	factor (B	CF)								
V	'alue			Species	5	ſ	Method	d	Evaluati	on		Note	
	rmation		No		rmation	No info		on	No informati	on	_		
availabl	le		availab	ole		availab	ole		available				
·····													
	Chronic	c ec	otoxicit	V									
					Ext	oosure							
	Value			Dose		ime	Sp	ecies	Method	Evalu	ation	Note	
.			· .		No		No		No	No			
Chronic	toxicity	on 1	rish	LC ₅₀	avail	mation able	availa	mation able	information available	informa availab		-	
<i>c</i> ı ·					No		No		No	No			
	toxicity ea (<i>Daph</i>			EC ₅₀	i	mation		mation	information	inform		-	
					avail	able	availa	able	available	availab	le		
12.4	Mobilit	tv in	soil										
12.4	1			ad distrib	ution in	anvironm	nental (compart	ments:				
	No info	······································			ution in	ETIVITOTITI	Territar	compart	illelits.				
	Surface												
	Valu			°C	C	oncentra	ation		Method			Note	
	No		No)				Na :					
	informa			ormation	1	informa ailable	ition	availak	ormation ole	-			
	availab	ie	ava	ailable									
	1		<u> </u>										



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

Transport	A/D coefficient				
	Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-water	No information available	No information available		No information available	-
Water-air	No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	-
12.5 Res	sults of PBT and vPvB asses	ssment			
acc	e substance/mixture does of cording to REACH Article 5 gulation (EU) 2018/605 at I	7(f) or Commission	n Delegated regulat		
12.6. End	docrine disrupting propert	es			
acc	e substance/mixture does i cording to REACH Article 5 gulation (EU) 2018/605 at I	7(f) or Commission	n Delegated regulat		
12.7 Otl	her adverse effects				
No	further relevant information	on available.			
SECTION 1	3. Disposal consideration	S			
13.1 V	Vaste treatment methods				
13.1.1. F	Product/Packaging disposa	l:			
S	Product/Packaging disposa Submit for disposal to the l Protection.		rized by the Ministr	y of Environmental	and Nature
S	Submit for disposal to the I	egal person autho		y of Environmental	and Nature
13.1.2. V	Submit for disposal to the l Protection.	egal person autho) Law:		
13.1.2. V	Submit for disposal to the learn to the lear	egal person autho ntions according to ontains residual ha) Law:		
13.1.2. V 13.1.3. V	Submit for disposal to the learn to the lear	egal person autho ntions according to ontains residual ha) Law:		



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Trading name:		IODINE SOLUTION, V	ERHOEFF C		
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	Waste must not be disposed of	f into the sewage system.				
13.1.5.	Other disposal recommendation	ns:				
	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 provisions:					
Disposal must be made according to official regulations.						
SECTION	14. Transport information					
7	Transporting/shipment by road (ADR)				
UN numb	er:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	hazard class(es):	-				
Packing g	roup:	-				
Environm	entally hazardous:	-				
Special precautions for user: -		-				
٦	Fransporting/shipment by rail (RI	ID)				
UN numb	er:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	hazard class(es):	-				
Packing g	roup:	-				
Environm	entally hazardous:	-				
Special pr	recautions for user:	-				
I	nland waterway transport (ADN)					
UN numb	er:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	hazard class(es):	-				
Packing g	roup:	-				
Environm	entally hazardous:	-				
Special pr	recautions for user:	-				
7	Transporting/shipment by sea (IN	MDG)				
UN numb	er:	Not subject to transport regulations				
UN prope	er shipping name:	-				
Transport	hazard class(es):	-				
Packing g	roup:	-				



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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: -	

5.1 Safety, health and e	nvironmental regulations/legislation specific for the substance or mixture			
EU regulations				
Authorization and/o	Authorization and/or restrictions of use			
Authorizations:	-			
Restrictions:	-			
Other EU regulation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);			



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amended by Regulation (EU) No. 2020/878

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Trading name:	IODINE SOLUTION, VERHOEFF C				
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	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act
15.2	Chemical safety 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	ication	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	

SECTION	ON 1. Identification of	the substan	ce/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	REAGENT	FOR DIFFERE	NTIATION, VERHOEFF	
	Chemical name:	-	-		
	Catalogue number:	RDV-OT-X**			
1.2.	2. Relevant identified uses of the substance or mixture and uses advised against			xture and uses advised against	
	Uses:		For use wi	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 safet	y data sheet		
	Supplier:	I	BioGnost Ltd.		
	Address:		Medjugorska 59, Zagreb		
	Telephone number:		+385 1 2409997		
	Fax no.:		+385 1 2404039		
	e-mail of competent person:		msds@biognost.hr		
	National contact:	-	-		
1.4.	Emergency telephone	number			
	National Protection a	nd Rescue D	irectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	SECTION 2. Hazards identification					
2.1.	Classification of the substance or mixture					
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)					
	Hazard class and category	code:	Hazard statements*:			
	Not identified as hazardous substance					
2.1.2.	Additional information					
	-					
*For fu	ll text of Hazard- and EU Hazard-sta	tements: 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 Properties:			
	No known endocrine disrupting properties			
	Results of PBT and vPvB assessment : According to the results of its assessment, this substance is not PBT or a vPvB.			

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		

SECTIO	ECTION 4. First aid measures					
4.1.	Description of first aid measure	es ·				
	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 aide	r: Treat symptomatically.				
4.2.	Most important symptoms and	effects, both acute and delayed				
		According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				
	FOILOWING SKIN CONTACT.	According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.				



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

	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				
	-				

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

SECTIO	SECTION 6. Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1.	For non-emergency personne				
	Protective equipment:	Use personal protective equipment (see Section 8).			
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.			
	Emergency procedures:	Mark the area using proper signs.			
6.1.2.	For emergency responders:				
	Wear protective equipment (see Section 8).				
6.2.	Environmental precautions:				
	Do not dispose of in sewage, 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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Trading name:	REAGENT FOR DIFFERENTIATION, VERHOEFF					
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6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

SECTIO	FION 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 generat	on:	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:		;			
1.1.4.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	horo	ughly wash hands after work and before eating.			
7.2.	Conditions for safe storage, including any inco		<u> </u>			
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a ventilated storage rooms, and away from sources of I sunlight, and other incompatible substances.				
***************************************	Packaging materials:	Manufacturer's original packaging. Keep away from food and drink. Keep the containers tightly closed.				
	Requirements for storage rooms and vessels:					
	Advices for storage equipment:	be r dire	storage must be made of hard material; floors must resistant to chemicals. There must be no drain that ectly leads into sewage system. Secure proper tilation.			
	Further information on storage conditions:	and che	not place the unused material in the storage room do not use empty containers for storing other micals. Do not store with incompatible materials (see tion 9).			
7.3.	Specific end use(s)					
	Recommendations:	-				
	Industrial sector specific solutions:	-				



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SECTION 8. Exposure controls/personal protection								
8.1. Control parameters								
Substance		CAS I			upational exposure limit llues/short term values		Biological limit values	
				ppm mg/m³		mg/m³		
-		-					No information available	
,								
Substance - name:								
EC No: -		CAS No:	-					
DNEL								
				Inc	dustrial			
Route of	A	Acute		Acut	e	Chronic	Chronic	
exposure:	effe	ect local	effe	ct sys	temic	effect loca	l effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-		-	-		
Critical physical parar	meters: s	solubility, fla	ımmabilit	y, cor	rosivity:	-		
	1			Co	nsumer			
Route of		Acute	Acute		Chronic	Chronic		
exposure:	effe	ect local	effe	ct sys	temic	effect loca	ıl effect systemic	
Oral	-		-			-	-	
Inhalation	-		-			-	-	
Dermal	-		-			-	-	
PNEC					1			
Environmental protec	tion tar	get			PNEC			
Fresh water					No information available			
Freshwater sediments					No information available			
Marine water				No information available				
Marine sediments				No information available				
Food chain				No information available				
Microorganisms in sewage treatment				No information available				
Soil (agricultural)					No information available			
Air					No information available			



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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:	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 pre exposure:	event	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.		
8.2.2.	Personal protection equip	ment			
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) (EN 166) visor.			
8.2.2.2.	Skin protection				
	Hand protection:		ctive 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 f	ctive 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 related measures to prevent exposure:		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 prevent exposure:		See Section 6		

SECTION 9. Physical and chemical properties						
9.1.	Information on basic physical and chen	nical 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		

Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lover and upper explosion limit: Flash point: Auto-ignition temperature: No information available	Kinematic viscosity:	No information available	No information available
Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lover and upper explosion limit: No information available	рН:	No information available	No information available
Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lover and upper explosion limit: No information available	Decomposition temperature:	No information available	No information available
Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: No information available	Auto-ignition temperature:	No information available	No information available
Melting point / freezing point: Boiling point or initial boiling point and boiling range: Flammability: No information available	•		No information available
Melting point / freezing point: Boiling point or initial boiling point and boiling range: No information available			
Melting point / freezing point: Boiling point or initial boiling point and boiling range: No information available No information available No information available		No information available	No information available
Melting point / freezing point: No information available	Flammability:	No information available	No information available
Melting point / freezing point: No information available			
	9.	No information available	No information available
		No information available	No information available
and the state of t			
			No information available
Colour: yellow No information ava			

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

Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
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	Met hod	Note
Skin irritation:	-	_	-	-	-
Eye irritation:	-	-	-	-	-

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

Symptoms related to the physical, chemical and toxicological characteristics					
Oral exposure:	No information available				
Dermal exposure:	No information available				
Inhalation exposure:	No information available				
Eye exposure:	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		

Repeate		toxicity (sub Dose	Exposure	Species	c)	Method	Evaluatio	n	Note
Subacute oral		nformation	No information available	No informati available	on	No information available	No information		-
Subacute dermal	No ii availal	nformation ole	No information available	No informati available	on	No information available	No information	on	-
Subacute inhalation	No ii availal	nformation ole	No information available	No informati available	on	No information available	No information	on	-
Subchronic oral	No ii availal	nformation ole	No information available	No informati available	on	No information available	No information available	on	-
Subchronic dermal	No ii availal	nformation ole	No information available	No informati available	on	No information available	No information	on	-
Subchronic inhalation	No ii availal	nformation ole	No information available	No informati available	on	No information available	No information available	on	-
Chronic oral	No ii availal	nformation ole	No information available	No informati available	on	No information available	No information	on	-
Chronic dermal	No information available		No information available	No informati available	on	No information available	No information available	on	-
Chronic inhalation	No ii availal	nformation ole	No information available	No informati available	on	No information available	No information available	on	_
Specific	target o		y – repeated e	xposure (S	IOIR				Note
Subacute oral			pecific effects		No i	Target orga nformation avai		_	ivote
Subacute dermal			tion available			nformation avai		_	
Subacute inhalat			tion available			nformation avai		-	
Subchronic oral	- :		tion available		No information available			_	
Subchronic derm	nal		tion available			nformation avai		-	
Subchronic inhal	ation	No informa	tion available		No i	nformation avai	lable	-	
Chronic oral		No informa	tion available		No i	nformation avai	lable	-	



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Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version: 4			

Chronic dermal No information		tion available	No information available	-			
Chronic	inhalation	No informa	tion available	No information available	-		
	1						
	CMR effects	(carcinogenicity	, mutagenicity, rep	roductive toxicity)			
	Carcinogenic	ity:	Based on avail	able data, the classification criteria a	are not met.		
	Mutagenicity	ı in-vitro:	Based on avail	able data, the classification criteria a	are not met.		
	Genotoxicity:	•	Based on avail	able data, the classification criteria a	are not met.		
	Mutagenicity	in-vivo:	Based on avail	able data, the classification criteria a	are not met.		
	Germ cell mu	ıtagenicity:	Based on avail	able data, the classification criteria a	are not met.		
	Reproductive	e toxicity:	Based on avail	able data, the classification criteria a	are not met.		
11.2	Information of	on other hazard	ds:				
11.2	Information of	on other hazard	ls:				
11.2.1.	Endocrine dis	srupting proper	rties:				
	contain cor have endocr according to Commission 2017/2100 c	ance/mixture mponents con rine disrupting o REACH Artic Delegated reg or Commission 05 at levels	properties cle 57(f) or ulation (EU) Regulation				
11.2.2.	Other inform	ations:					

SECTION	12. Ed	ological	l informatior	1
----------------	--------	----------	---------------	---

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					
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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

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				

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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Product code:	RDV-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

Produc	ct code:	RDV-	OT-X**		Date o	of compilati	on: 21 E	Dec 207	22 V	ersion:	4
	Bioconcer	ntration	factor (BCF)								
V	/alue		Species		Me	ethod	Evaluat	ion		Note	
	rmation	No availat	inform	ation	No inforr		No inforn		No inform	No information availabl	
	Chronic e	cotoxicit	ty								
	Value		Dose		osure ime	Species	Method	k	Evaluation	n	Note
Chronic	c toxicity on	fish	LC ₅₀	No infor availa	mation i	No nformation available	No information available	าก :	o informati vailable	on -	
	c toxicity on ea (<i>Daphnic</i>		EC ₅₀	No infor availa	mation i	No nformation available	No information available	าก	o informati vailable	on -	
12.4.	Mobility in	n soil									
	Known or	predicte	ed distributi	on in e	environme	ntal compar	tments:				
	No inform	nation av	vailable								
	Surface te	nsion:									
	Value		°C	C	oncentratio	on	Method			Note	
	No information available		ormation ailable		informatio iilable	on No in availa	formation ble		-		
	Adsorptio	n / desc	orption								
Transpo	ort !	A/D coef enry's co		lc	log Kow Ev		aporation rate		Method N		Note
Soil-wa	iter No avail		nformation	No ir availa	nformation able	No inforn	o information available		No inform available	nation	-
Water-a	air No avail		nformation	No ir availa	nformation able	No inforn	nation avail	able	No inform available	nation	-
		No inform	nation	_							



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Trading name:		REAGENT FOR DIFFERENTIATION, VERHOEFF						
Product o	ode:	RDV-OT-X** Date of compilation: 21 Dec 2022 Version: 4						
12.5. R	esults of	FPBT and vPvB assessm	nent					
а	ccording		contain components considere or Commission Delegated reg els of 0.1% or higher.					
12.6. E	ndocrine	e disrupting properties						
а	ccording		contain components considere or Commission Delegated reg els of 0.1% or higher.					
12.7. C	ther adv	verse effects						
٨	o inform	nation available						
13.1.		reatment methods						
13.1.	vvaste t	reatment methods						
13.1.1.	Product	:/Packaging disposal:						
	Submit Protecti		al person authorized by the Mir	nistry of Environme	ntal and Natui	re		
13.1.2.	Waste c	codes/waste designatio	ns according to Law:					
		rmation available	J					
13.1.3.	Waste t	reatment – relevant inf	ormation:					
13.1.3.		rmation available	ornation.					
13.1.4.	Sewage	disposal – relevant info	ormation:					
	Waste n	nust not be disposed o	f into the sewage system.					
13.1.5.	Other d	isposal recommendation	ons:					
	authorize the pack	zed by the ministry in c	's remains into the sewage syst harge. Do not dispose of the pa s authorized by the ministry in o	ackaging into the s	ewage system	. Submit		
13.1.6.	Relevan	t Community provision	is:					



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SECTION 14. Transport information	
Transporting/shipment by roa	ad (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 rai	I (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 (Al	DN)
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	a (IMDG)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by air	(ICAO-TI/IATA-DGR)
UN number:	Not subject to transport regulations.
UN proper shipping name:	-
Transport hazard class(es):	-
Packing group:	-
Environmentally hazardous:	-



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Special precautions for us	ser: -	
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 1999/13/EC; Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);		
	Information according 19 guideline)	99/13/EC about limitation of emissions of volatile organic compounds (VOC-		
	National legislation:	Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act		
15.2.	Chemical safety assessme	nt		
	None			

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



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

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 literature references ar source of data:	d -			
16.4.	16.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classifi	ication	Classification procedure			
-		-			
16.5.	Relevant H statements (nur	mber and full text)			
	302	Harmful if swallowed.			
	H: 315	Causes skin irritation.			
	318	Causes serious eye damage.			
16.6.	Training advice:	-			
		** "X" in the product code marks different volumes (different packagings of the product)			
16.7.	Further information:	We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.			

ΔNN	IEV-

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

SECTION	ON 1. Identification of	the substa	ance/mixture a	and of the company/undertaking	
1.1.	Product identifier				
	Trading name:	SODIUM	1 THIOSULFATE	5, 5% SOLUTION	
	Chemical name:	-			
	Catalogue number:	NT5-OT	-X**		
1.2.	Relevant identified us	es of the s	ubstance or mi	xture and uses advised against	
	Uses:		For use with	special staining kits.	
	Uses advised against:		Only the ider	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	oerson:	msds@biognost.hr		
	National contact:		-		
1.4.	Emergency telephone	number			
	National Protection a	nd Rescue	Directorate:	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 Regula	ation (EC) No 1272	/2008 (CLP)	
	Hazard class and category	y code:	Hazard statements*:	
	Not identified as hazardous subs	tance		
2.1.2.	Additional information			
	-			
*For fu	Ill text of Hazard- and EU Hazard-st	atements: see Sect	on 16	
2.2.	Label elements			
	Product identification:	SODIUM THIOSI	ILFATE, 5% SOLUTION	
	Identification number:	-		
	Authorization no.:	-		
	Hazard pictograms:	-		



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Trading name:	SODIUM 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 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 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	

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



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

	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		
	-		

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

SECTIO	SECTION 6. Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personne			
	Protective equipment:	Use personal protective equipment (see Section 8).		
	Accident prevention methods	Evacuate members of all non-essential personnel and those members without protective equipment. Remove all sources of sparks and ignition. Do not smoke.		
	Emergency procedures:	Mark the area using proper signs.		
6.1.2.	For emergency responders:			
	Wear protective equipment (see Section 8).			
6.2.	Environmental precautions:			
	Do not dispose of in sewage, 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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Trading name:	SODIUM THIOSULFATE, 5% SOLUTION				
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version:	4

6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and and involved materials with water.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	-	

SECTIO	ON 7. Handling 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. 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:	SODIUM THIOSULFATE, 5% SOLUTION					
Product code:	NT5-OT-X**	Date of compilation:	21 Dec 2022	Version: 4		

SECTION 8. Exposur	e contr	ols/person	al protec	tion			
8.1. Control para	meters	T					
Substance		CAS I			•	exposure limit t term values	Biological limit values
					ppm	mg/m³	
-		-			-	-	No information available
Substance - name:							
EC No: -		CAS No:	-				
DNEL							
				Inc	dustrial		
Route of	,	Acute		Acut	e	Chronic	Chronic
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			<u> </u>	-
Critical physical parar	meters:	solubility, fla	ammabilit	y, cor	rosivity:	-	
	1		_	Co	nsumer		
Route of		Acute		Acut		Chronic	Chronic
exposure:	effe	ect local	effe	ct sys	temic	effect local	effect systemic
Oral	-		-			-	-
Inhalation	-		-			-	-
Dermal	-		-			-	-
PNEC					<u> </u>		
Environmental protect	tion tar	get			PNEC		
Fresh water					No information available		
Freshwater sediments					No information available		
Marine water					No information available		
Marine sediments					No information available		
Food chain					No information available		
Microorganisms in sewage treatment					No information available		
Soil (agricultural)					No information available		
Air					No infor	mation available	



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8.2.	Exposure controls			
8.2.1.	Engineering measures			
	Substance/mixture related measures to prevent exponential 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 prexposure:	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 proexposure:	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 166) or visor.		
8.2.2.2.	. Skin protection			
	Hand protection:	1	artive 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 f	ctive 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 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	event	See Section 6	

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



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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
Lover and upper explosion limit:	No information available	No information available
Flash point:	No information available	No information available
Auto-ignition temperature:	No information available	No information available
Decomposition temperature:	No information available	No information available
рН:	No information available	No information available
Kinematic viscosity:	No information available	No information available
Solubility:	No information available	No information available
Partition coefficient n-octanol/water (log value):	No information available	No information available
Vapour pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapour density:	No information available	No information available
 Particle characteristics:	No information available	No information available
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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Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	-	LD ₅₀	-	-
Dermal exposure:	No information available	-	LD ₅₀	-	-
Inhalation exposure:	No information available	-	LC ₅₀	-	_
Specific tar	get organ toxicity – s	inale exposure	(STOT SF):		
эрсете саг	Specific		Target organ		Note
Oral exposure:	No information		No information available	-	
Dermal exposure:	No information	available	No information available	_	
Inhalation exposure:	No information	available	No information available	-	
Respiratory	irritation:	No inf	ormation available		
Irritation ar	nd corrosion				
milation ar	Exposure time	Species	Evaluation	Meth od	Note
Skin irritation:	-	-	-		
Eye irritation:	-	-	-		
Sensitizatio	n				
Dermal exposure:	No information avai	lable			
Inhalation	No information avai	lable			
exposure:					
exposure:	related to the physic	al, chemical an	d toxicological characterist	ics	
exposure: Symptoms	related to the physic		d toxicological characterist	ics	
Symptoms Oral exposure:	1	vailable	d toxicological characterist	ics	
exposure:	No information a	vailable vailable	d toxicological characterist	ics	



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	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	-

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	-				



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Chronic	inhalation	No informa	tion available	No information available	-
	CMR effects (c	carcinogenicity	, mutagenicity, r	eproductive toxicity)	
	Carcinogenicit	:y:	Based on av	ailable data, the classification criteria	a are not met.
	Mutagenicity	in-vitro:	Based on av	ailable data, the classification criteria	a are not met.
	Genotoxicity:		Based on av	ailable data, the classification criteria	a are not met.
	Mutagenicity (in-vivo:	Based on av	ailable data, the classification criteria	a are not met.
	Germ cell mut	agenicity:	Based on av	ailable data, the classification criteria	a are not met.
	Reproductive toxicity: Based on available data, the classification criteria are not met.				
11.2	Information o	n other hazaro	s:		
11.2	Information o	n other hazard	s:		
11.2.1.	Endocrine disr				
	The substar contain com have endocri according to Commission E 2017/2100 or (EU) 2018/60 higher.	ponents con ne disrupting REACH Artic Delegated reg Commission	properties le 57(f) or ulation (EU) Regulation		
	Other informa	tions	·		
11.2.2.	Other informa	tions.			

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	-	1
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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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	-

ъ.		1
RIOC	laara <i>t</i>	1ation
DIOU	i c qi at	dation

% Degradation	Time (days)	Method	Evaluation	Note
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	-

Bioconcentration factor (BCF)



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\	√alue		Species	Me	ethod	Evaluation		Note	
No info	ormation ble		informati ilable	on No inform available	nation	No information available	No info	ormation av	ailable
	Chronic	c ecotox	icity						
	Value		Dose	Exposure time	Species	Method	Eva	luation	Note
Chroni	c toxicity	on fish	LC ₅₀	No information available	No information available	No information available	No info	ormation ble	-
	c toxicity cea (<i>Daph</i>		EC ₅₀	No information available	No information available	No information available	No info	ormation ble	-
12.4.	Mobilit	ty in soil							
		-	icted distributi	on in environm	ental compart	tments:			
	Known	or pred	icted distributi available	on in environm	ental compart	tments:			
	Known No info	or pred	available	on in environm	ental compart	tments:			
	Known No info	or predi ormation	available	on in environm		tments:		N	lote
	Known No info	or prediction or prediction or prediction	available ::		tion		able	N	lote
	Known No info Surface Valu No informa	or prediction or prediction or prediction	°C No information	Concentra No informat	tion	Method	able		lote
	Known No info Surface Valu No informa available	or prediction or	°C No information	Concentra No informat	tion	Method	able		lote
Transp	Known No info Surface Valu No informa availab	or prediction prediction prediction prediction / de A/D co	available "C No information available	Concentra No informat	tion No inf	Method			Note
	Known No info Surface Valu No informa available Adsorp	ation of A/D co	available "C No information available esorption pefficient	Concentra No informat available	tion No inf	Method formation avail	1	- Method	
Transp	Known No info Surface Valu No informa available Adsorp ort ater No avair	ation of A/D control of tension o	available "C No information available esorption pefficient s constant	Concentra No information info	tion No informavailable	Method formation avail pration rate	No info	Method ormation ble ormation	



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12 F	Decults of DDT and vDvD accessment
12.5.	Results of PBT and vPvB assessment
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission
	Regulation (EU) 2018/605 at levels of 0.1% or higher.
	Regulation (LO) 2010/003 at levels of 0.1% of higher.
12 C	
12.6.	Endocrine disrupting properties
	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7.	Other adverse effects
	No information available
SECTIO	N 13. Disposal considerations
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature
	Protection.
13.1.2.	Waste codes/waste designations according to Law:
	No information available
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors
	authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit
	the packaging to the collectors authorized by the ministry in charge. Do not dispose of in places where
	ignition may occur.
13.1.6.	Relevant Community provisions:
	-



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

amended by Regulation (EU) No. 2020/878

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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 (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 (I	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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Special precautions for us	er:	-
Further information:	-	

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

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



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16.2.	Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative			
16.3.	Key literature references and source of data:	-			
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)				
Classification		Classification procedure			
-		-			
16.5.	Relevant H statements (number 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.			

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Exposure scenario resulting to Chemical safety assessment

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