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

1.1.	Product identifier					
	Trade name:	HEMATOXYLIN	, VERHOEF	F A		
	Chemical name:	-				
	Catalogue number:	HEMV-OT-X**				
1.2.	Relevant identified uses	of the substance	ce or mixtu	re and uses advised against		
	Uses:		For use \	vith Verhoeff kit.		
	Uses advised against:		Only the	identified uses are advised.		
	Reason why uses advised against:		The product is intended for use only as an <i>in vitro</i> diagnostic medical device, registered at the Agency for Medicinal Products and Medical Devices and there is no reason to use it for other purposes.			
1.3.	Details of the supplier of the safety data sheet					
	Supplier:	BioGr	ost Ltd.	.td.		
	Address:	Medjı	ugorska 59,	59, Zagreb		
	Telephone number:	+385	1 2409997	09997		
	Telefax:	+385	1 2404039	139		
	e-mail of competent pe	rson: <u>msds</u>	<u>@biognost.hr</u>			
	National contact:	-				
1.4.	Emergency telephone n	Emergency telephone number				
	National Protection and	Rescue Directo	rate:	112		
	Medical information:			+385 1 2348 342		
	Other information:			-		

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



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	Hazard pictograms:	GHS02
	Signal word:	Danger
	Hazard statements:	H225 Highly flammable liquid and vapor.
	Precautionary statement:	 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.
	Supplemetal hazard information (EU)	-
2.3.	Other hazards	
	-	

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

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



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

SECTIO	N 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	Small fire - water spray, dry powder, alcohol-resistant foam, CO 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:	Incomplete combustion of the product.			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit com Cool closed containers exposed to fire	pressed air breathing apparatus and fireproof clothing. with water spray or vapor.			
5.4.	Additional information				
	-				

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



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

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



Marine sediments

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

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

8.1. Control	parar	meters	-						
Substance					upational exposure limit		Biological limit values		
					ppm	mg/m ³			
Ethanol			64-17	'- 5	1000/-	1900/-		-	
Substance: -									
EC No: -			CAS No:	_					
DNEL			C/13 IVO.	<u> </u>					
					Industrial				
D		Acute			Acute	Chron	ic	Chronic	
Route of exposure:		effe	fect local effe		ect systemic	systemic effect local		effect systemic	
Oral -		-		-		-		-	
Inhalation		-	-			-		950 mg/m ³ (ethanol)	
Dermal		-		-		-		343 mg/kg (ethanol)	
Critical physical p	aram	neters: s	olubility, fla	mmabilit	ty, corrosivity:				
					Consumer				
Route of exposu	M 0.	Þ	Acute		Acute	Chron	ic	Chronic	
Route of exposu	re.	effe	ect local	effe	ect systemic	effect lo	cal	effect systemic	
Oral		-		-		-		-	
Inhalation		-		-		-		114 mg/m³ (ethanol)	
Dermal		-		-		-		206 mg/kg (ethanol)	
PNEC									
Environmental protection target			PNEC						
Fresh water				0.96 n	0.96 mg/l (ethanol)				
Freshwater sedim	ents				3.6 mg	3.6 mg/kg (ethanol)			
Marine water					0.79 n	0.79 mg/l (ethanol)			

no information available



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



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

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



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

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



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



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Chronic inhalati			No information available	No information available	n	No information available	No informati available	on	-		
	Specific	target o	rgan toxic	ity – repeated e	exposure (STC	OT RE).				
	opeeme	. tai get o	- garr toxic	Specific effect	•	J. 1(L	Target org	nan		Note	
Subacu	te oral		No infor	mation availabl		No information available					
Subacu	te derma	<u> </u>	No infor	mation availabl	e	No ii	nformation av	ailable	-		
Subacu	te inhalat	ion	No infor	mation availabl	е	No ii	nformation av	ailable	-		
Subchro	Subchronic oral No information available			е	No ii	nformation av	ailable	-			
Subchronic dermal No information availa			mation availabl	е	No ii	nformation av	ailable	-			
Subchronic inhalation No information available				е	No ii	nformation av	ailable	-			
Chronic oral No information available				е	No information available			-			
Chronic dermal No information available				e	No ii	nformation av	ailable	-			
Chronic inhalation No information available					e	No ii	nformation av	ailable	-		
	Carcino	genicity: enicity <i>in-</i>		ty, mutagement	No info	No information available No information available No information available					
	Mutage	enicity <i>in-</i>	vivo:		No info	No information available					
	Germ c	ell mutag	enicity:		No info	No information available					
	Reprod	uctive to	xicity:		No info	No information available					
	Summa	,	evaluatior	n of the CN	MR _						
11.2.	Practica	al experie	nces:								
	Remark	s relevan	t for classi	fication:	No inf	forma	tion available				
	Other r	emarks:			No inf	forma	tion available				
11.3.	Note:										
11.0.	TAULE.										

SECTION 12.	Ecological	information:
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12.1. Toxicity



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Acute (short-terr toxicity	n)	Dose	Exposure time	Species	Metho	d Evaluat	tion No	te
Fish		LC ₅₀	96 hours	No information available	No information available	No on informa available		
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No on informa available		
Algae/aquatic pl	ants	IC ₅₀	72 hours	No information available	No informat availab			
Microorganisms		-	-	No information available	No information available	No on informa available		
Chronic (long-te toxicity	rm)	Dose	Exposure time	Species	Metho	d Evaluat	tion No	te
Fish		LC ₅₀	96 hours	No information available	No information available	No informa available		
Crustacea:		EC ₅₀	48 hours	No information available	No information available	No on informa available		
Algae/aquatic pl	ants	IC ₅₀	72 hours	No information available	No information available	No on informa available		
Microorganisms		_	-	-	_	-	-	
		d degradak	oility					
Abiotic		gradation h	nalf-lives	Metho		Fv	aluation	Note
Marine water		formation a		No information			ition available	-
Fresh water	No int	formation a	vailable	No information	available	No informa	ition available	-
Air	No int	formation a	vailable	No information	available	No informa	tion available	-
Soil	No inf	formation a	vailable	No information	available	No informa	tion available	-
Diadage	adatic	n						
Biodegr % Degradation	auatio	n Time (days	-)	Method		valuation	Note	
70 Degradation		Time (days	>)	ivietilou		valuatiOH	note	



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



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



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



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

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

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



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

16.2.	Abbreviations and acronyms:	PBT Stable, bioaccumulative and toxic vPvB Strongly stable and strongly bioaccumulative. LD ₅₀ Lethal dose, 50% LC ₅₀ Lethal concentration, 50% TCOJ Specific target organ toxicity - single exposure		
16.3.	Key literature references and source of data:	-		
16.4. Classification and procedure 1272/2008 (CLP)		used to derive the classification for mixture according to Regulation (EC)		
Classification		Classification procedure		
-		-		
16.5. Relevant H statements (numl		ber and full text)		
	H: 225	Highly flammable liquid and vapor.		
16.6.	Training advice:	-		
16.7.	Further information:	** "X" in the product code marks different volumes (different packaging 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