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Trading name:	CRYSTAL VIOLET, C.I. 42555				-
Product code:	CRV-P-X**	Revision date:	29.07.2019.	Version:	2

1.1.	Product identifier				
	Substance name:	CRYSTA	L VIOLET, C.	I. 42555	
	EC No:	208-953	-6		
	Synonyms:	Gentian	Gentian Violet, Methyl Violet 10B		
	Catalogue number:	CRV-P->	CRV-P-X**		
	REACH registration number:	-			
	CAS No:	548-62-	548-62-9		
	Index no.:	612-204	-00-2		
1.2.	Relevant identified uses of the substance or mixture and uses advised against			cture and uses advised against	
	Uses:		For microscopy.		
	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	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 pe	erson:	msds@biognost.hr		
	National contact:	National contact:		-	
1.4.	Emergency telephone number				
	National Protection and	l Rescue Dire	ectorate:	112	
	Medical information:			+385 1 2348 342	
	Other information:			-	

SECTIO	FION 2. Hazards information				
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*:			
	Acute Tox. 4	H302			
	Causes serious eye damage	H318			
	Carc. 2	H351			
	Aquatic Chronic 1	H410			
2.1.2.	Additional information				
	-				



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2.2.	Classification according to EC Dir	ective Nr. 1272/2008 (CLP)
	Product identification:	CRYSTAL VIOLET, C.I. 42555
	Identification number:	-
	Authorization no.:	-
	Hazard pictograms:	GHS05  GHS08  GHS09
	Signal word:	Danger
	Hazard statements:	<ul> <li>H302 Harmful if swallowed.</li> <li>H318 Causes serious eye damage.</li> <li>H351 Suspected of causing cancer.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>
	Precautionary statements:	P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. 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.
	Further information:	-
2.3.	Other hazards	



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SECTION 3. Composition/information on ingredients					
CAS No	EC No:	Index no.	Identification name	Weight % content (or range)	
548-62-9	208-953-6	612-204-00-2 h	hexamethylene pararosanil chloride	90-100	

SECTI	ON 4. First aid measures	
4.1.	Description of first aid measures	
	General notes:	-
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. If breathing becomes erratic or it stops, immediately apply artificial respiration (other than mouth-to-mouth) and contact a physician.
	Following skin contact:	Remove contaminated clothing. Immediately wash with copious amounts of water for at least 15 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 using clean fingers. If the symptoms remain, immediately call a physician.
	Following ingestion:	DO NOT induce vomiting. If the afflicted person is unconscious, do not provide them with anything orally. Seek medical attention in case of irritation or other symptoms.
	Self-protection of the first aider:	-
4.2.	Most important symptoms and ef	fects, both acute and delayed
	Following inhalation:	Harmful if swallowed.
	Following skin contact:	Harmful by inhalation and in contact with skin.
	Following eye contact:	Risk of serious damage to eyes.
	Following ingestion:	Harmful if swallowed.
4.3.	Indication of any immediate medi	cal attention and special treatment needed
	-	

SECTI	SECTION 5. Firefighting measures				
5.1.	Extinguishing media				
	Suitable extinguishing media:	In case of fire use water spray for cooling the jars. Use water spray, dry dust, $CO_2$ , or a suitable foam.			
	Unsuitable extinguishing media:	-			
5.2.	Special hazards arising from the sub	stance or mixture			
	Hazardous combustion products:	-			
5.3.	Advice for firefighters				
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.				
	Cool closed containers exposed to f	ire with water spray or vapor.			



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5.4.	Additional information
	-

SECTIO	N 6. Accidental release	e measures	
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency po	ersonnel	
	Protective equipment:		Use personal protective equipment (see Section 8).
	Accident prevention m	nethods:	-
	Emergency procedure	s:	-
6.1.2.	For emergency respor	nders:	
	-		
6.2.	Environmental precautions:		
6.3.	Methods and material for containment and cleaning up		
6.3.1.	For creating barriers, covering and sealing:	-	
6.3.2.	Cleaning up:	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 sec	ctions	
	-		

SECTIO	ECTION 7. Handling an 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. Tho	roughly wash hands after work and before eating.					
7.2.	Conditions for safe storage, including any incomp	patibilities					
	Technical measures and storage conditions:	Wash hands thoroughly after handling. Use with					



**Route of** 

exposure:

Inhalation

Oral

Acute

effect local

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appropriate ventilation. Minimize dust formation. Avoid inhaling vapor, dust, mist or gas. Avoid contact with skin,

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					eyes and	•	in tightly	closed container. Avoic	
	Packaging m	naterials:			Manufa	Manufacturer's original packaging.			
	Requiremen	ts for stor	age rooms a	nd vesse	71C.			eep in cool, dry and well empatible substances.	
	Advices for storage equipment:				be resist directly	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 infor	rmation or	n storage coi	nditions	: No infor	mation availab	le.		
7.3.	Specific end	use(s)							
	Recommend	lations:			-				
	Industrial se	ctor specif	ic solutions:		-				
CECTIO	N 0 F		, ,						
	N 8. Exposur		s/personal p	orotecti	on				
8.1.	Control para	imeters			0 '				
	Substance		CAS No		limit values	Occupational exposure limit values/short term values		ological limit values	
			-		ppm	mg/m³			
-					-			-	
Substan name:	ce -								
EC No:	-		CAS No:	-					
DNEL									
					Industrial				
Route o			cute t local		Acute ct systemic	Chron effect lo		Chronic effect systemic	
Oral		1		-		-		-	
Inhalatio	on	-		-		-		-	
Dermal		1		-		-		-	
Critical p	ohysical parar	meters: so	ubility, flam	mability,	corrosivity:				
					Consumer				

Acute

effect systemic

Chronic

effect local

Chronic

effect systemic



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-			•		•				

Dermal	-	-	-			-	
PNEC						<u> </u>	
Environn	nental protection target		PNEC				
Fresh wa	resh water			ation available	e		
Freshwat	er sediments		No inform	ation available	e		
Marine v	vater		No inform	ation available	e		
Marine s	ediments		No inform	ation available	e		
Food cha	ain		No inform	ation available	е		
Microorg	ganisms in sewage treatment		No inform	ation available	е		
Soil (agri	cultural)		No inform	ation available	е		
Air			No inform	ation available	e		
8.2.	Exposure controls						
8.2.1.	Appropriate engineering cont	rols					
	Substance/mixture related measures to prevent exposure during identified uses:	Use perso the works	rsonal protective equipment. Do not eat, drink or smoke in kspace.				
	Structural measures to preven exposure:	t No inform	No information available				
	Organisational measures to prevent exposure:		ion of work ork process.	in order to re	duce oth	ner worker's influence	
	Technical measures to prevent exposure:	t Use with a	appropriate v	ventilation.			
8.2.2.	Personal protection equipmen	nt					
8.2.2.1.	Eye and face protection:	Safety glass	es that stick	to face (prev	enting s	plashing) or visor.	
8.2.2.2.	Skin protection						
	Hand protection:		-	_		butyl rubber gloves (0.4 polychlorene gloves (0.1	
	Other skin protection:	During everyday work use cotton clothing and suitable for as rubber boots or shoes that cover the entire foot. In case hazard, use clothing made of impermeable material suitab protection from liquid chemicals (Viton, PVC, himex) and formade from the same material.				e foot. In case of spilling naterial suitable for	
8.2.2.3.	Respiratory protection:		entration leve with brown fi		e GVI val	ues, use full gas mask	
8.2.2.4.	Thermal hazards:	-					
8.2.3.	Environmental exposure contr	ols					
	Substance/mixture related measures to prevent exposure	See Section	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

.1.	Information on basic physical and	d chemical properties	
		Value	Method
	Physical state:	powder	No information available
	Color:	green	No information available
	Odor:	No information available	No information available
	Odor threshold:	No information available	No information available
	pH:	2.5-3.5 (10 g/L at 20°C)	No information available
	Melting point / freezing point;	173 °C	No information available
	Initial boiling point and boiling range:	No information available	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapor pressure:	No information available	No information available
	Vapor density:	No information available	No information available
	Relative density:	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	50g/l (at 27°C)	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	No information available	No information available



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SECTIO	SECTION 10. Stability and reactivity				
10.1.	Reactivity:	No information available			
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:	Incompatible materials.			
10.5.	Incompatible materials:	Strongly oxidizing media.			
10.6.	Hazardous decomposition products:	No information available			

11.1. Information	n on toxicological e	ffects						
Acute toxi	city:							
Route of exposure:	Method	Spo	ecies	Dose LD <sub>50</sub> /LC <sub>50</sub>	Expo	osure time	Results	
Oral exposure:	No information available	rat		$LD_{50} = 420$ mg/kg	No availab	informatio	on _	
Dermal exposure:	No information available	No in available	formation e	No information available	No availab	informatio	on -	
Inhalation exposure:	No information available	No in available	formation e	No information available	No availab	informatio	on -	
Specific target organ toxicity – single ex				Target organ			Note	
	Specific effects			Target organ		Note		
Oral exposure:	No information	available No infor		o information availa	able	-		
Dermal exposure:	No information	ı available No info		o information availa	able	-		
Inhalation exposure	e: No information	available	vailable No information available -					
Aspiration	hazard:	N	No informat	tion available				
Irritation a	nd corrosion							
	Exposure	time	Specie	es Evaluation	М	ethod	Note	
Skin No info		rmation No informa		nation _	No in availab	formation le	No information available	
Skin corrosion/irritation			available					



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Inhalation exposure:	N	o informati	on available				
Sympt	oms re	lated to the	physical, chemical	and toxicologica	al characteristics		
Oral exposure:		Harmful if	swallowed.				
Dermal exposu	re:	Harmful b	y inhalation and in	contact with skir	n.		
Inhalation expo	sure:	Harmful if	swallowed.				
Eye exposure:		Risk of ser	rious damage to eye	es.			
Renea	ted dos	se toxicity (s	subacute, subchroni	c chronic)			
Перец		Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral		formation	No information available	No information available	No information available	No information available	-
Subacute dermal	No in availa	nformation able	No information available	No information available	No information available	No information available	-
Subacute inhalation	No in availa	nformation able	No information available	No information available	No information available	No information available	-
Subchronic oral	No in availa	nformation able	No information available	No information available	No information available	No information available	-
Subchronic dermal	No in availa	nformation able	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No in availa	nformation able	No information available	No information available	No information available	No information available	-
Chronic oral	No in availa	nformation able	No information available	No information available	No information available	No information available	_
Chronic dermal	No in availa	nformation able	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	-
C:C	ic tor==	t organ ta	icity ropostad ava	ocuro (CTOT DE)			
Specif	ic targe		icity – repeated exp Specific effects		: get organ	Note	
Subacute oral			mation available		tion available	-	



**SECTION 12. Ecological information** 

Algae/aquatic plants IC<sub>50</sub>

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Subacu	ıte dermal	No information a	available	)	No information available	-	
Subacu	ıte inhalation	No information a	available	)	No information available	-	
Subchr	onic oral	No information a	available	)	No information available	-	
Subchr	onic dermal	No information a	available	)	No information available	-	
Subchr	onic inhalation	No information a	available	)	No information available	-	
Chronic	c oral	No information a	available	9	No information available	-	
Chronic	c dermal	No information a	available	)	No information available	-	
Chronic	c inhalation	No information a	available	9	No information available	-	
	CMR effects (c	arcinogenicity, mu	tagenici	ty, repr	roductive toxicity)		
Carcino	ogenicity:		No info	ormatic	on available		
Mutagenicity in-vitro:			No info	ormatic	on available		
Genotoxicity:			No info	ormatic	on available		
Mutage	enicity <i>in-vivo</i> :		No info	ormatic	on available		
Germ c	cell mutagenicity:	•	No information available				
Reprod	ductive toxicity:		No information available				
	Summary of properties:	evaluation of the	e CMR		rding to our findings, chemica erties of the substance have n	. ,	
11.2.	Practical exper	iences:					
	Remarks releva	ant for classificatio	n:	No information available  No information available			
	Other remarks	:					
11.3.	General notes:						
	_						

12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	S. gairdnerii	No information available	0.7 mg/l	-
Crustacea:	EC <sub>50</sub>	48 hours	Daphnia magna	No information available	0.24 – 0.5 mg/l	-
Algae/aguatic plants	īC	72 hours	No	No	No information	

information

information

available

72 hours



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

#### 12.2. Persistence and degradability

Abiotic degradation

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

Biodegradation

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

#### 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	No information available	No information available



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on ania)  ty in soil or predicted ormation avail e tension:	Dose  LC <sub>50</sub> EC <sub>50</sub>	Exposure time  No information available  No information available  information available	No inform availal No inform availal	mation able mation able	Me No inform availab No inform availab	thod nation ole		ion	Note
on fish on ania)  ty in soil or predicted ormation avail	LC <sub>50</sub> EC <sub>50</sub> I distributi	time  No information available  No information available	No inform availa No inform availa	mation lble mation lble	No inform availab No inform availab	nation ble nation	No informat available No informat	ion	-
on fish on ania)  ty in soil or predicted ormation avail	LC <sub>50</sub> EC <sub>50</sub> I distributi	time  No information available  No information available	No inform availa No inform availa	mation lble mation lble	No inform availab No inform availab	nation ble nation	No informat available No informat	ion	-
on fish on ania)  ty in soil or predicted ormation avail	LC <sub>50</sub> EC <sub>50</sub> I distributi	time  No information available  No information available	No inform availa No inform availa	mation lble mation lble	No inform availab No inform availab	nation ble nation	No informat available No informat	ion	-
on ania)  ty in soil or predicted ormation avail e tension:	EC <sub>50</sub> I distributi ilable	information available No information available	inform availal No inform availal	nble mation nble	inform availab No inform availab	ole nation	informat available No informat	ion	-
ty in soil or predicted ormation availetension:	EC <sub>50</sub> I distributi ilable	information available	inform availa	ble	inform availab		informat	_	-
or predicted ormation avai e tension:	ilable	ion in enviror	nmental	compart	tments:				
ormation avai	ilable	ion in enviror	nmental	compar	tments:				
e tension:									
	°C								
	°C								
ue	C	Concent	ration		Method			Not	ie .
No ation infor le avail	rmation lable	No inform available	nation	No inf availat	ormation ole	1	_		
otion / desorp	otion								
A/D coeffic	cient	log Kow	/	Evapor rate		Method			Note
o info vailable	ormation	No informa available			mation			-	
o info vailable	ormation	No informa available			mation	-		-	
o info vailable	ormation	No informa available			mation			-	
o va o va	info ilable info ilable	information ilable information ilable	information No information available information No information No information available information No information No information available available	information No information available information No information I available information ilable information No information available available available available available	information No information available information No information No information available information No information available information No information No information available available information No information available	information No information available  information available	information No information No information available available available information No information No information No information available information No information available available available available	information No information available information No information available information No information available information No information No information available information No information No information No information No information No information	information No information available No information available No information available No information available information No information available information No information available information No information available available available available available information available i



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12.6.	Other adverse effects
	No information available

SECTION	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:
	-

SECTION 14. Transport information				
Transporting/shipment by	road (ADR)			
UN number:	3077			
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (hexamethylene pararosanil chloride)			
Transport hazard class(es):	9			
Packing group:	III			
Environmental hazard(s):	yes			
Special precautions for user:	-			
Transporting/shipment by	rail (RID)			
UN number:	3077			
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (hexamethylene pararosanil chloride)			
Transport hazard class(es):	9			



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Packing group:	Ш				
Environmental hazard(s):	yes				
Special precautions for user:	-				
Transporting/shipment by inland	waterways (ADN)				
UN number:	3077				
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (hexamethylene pararosanil chloride)				
Transport hazard class(es):	9				
Packing group:	III				
Environmental hazard(s):	yes				
Special precautions for user:					
Transporting/shipment by sea (IM	MDG)				
UN number:	3077				
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (hexamethylene pararosanil chloride)				
Transport hazard class(es):	9				
Packing group:	III				
Environmental hazard(s):	yes				
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:	3077				
UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (hexamethylene pararosanil chloride)				
Transport hazard class(es):	9				
Packing group:	Ш				
Environmental hazard(s):	yes				
Special precautions for user:	-				
Further information: Packages sn	naller than or equal to 5 kg / L , not dangerous goods of Class 9.				

SECTION 15 REGULATORY INFORMATION				
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulations			
	Authorization and/or restrictions of use			
	Authorizations:	-		
	Restrictions:	-		



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Trading name:		CRYSTAL VI	CRYSTAL VIOLET, C.I. 42555		
Product code:	CRV-P-X**	Revision date:	29.07.2019.	Version:	2

	Other EU regulations:	EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;		
	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, Sustainable Waste Management Act, Transport of Hazardous Substances Act		
15.2.	Chemical safety assessment			
	None			

SECTIO	SECTION 16. Other information				
16.1.	Indication of changes:		-		
	Abbreviations and acronyms:		PBT	Stable, bioaccumulative and toxic	
16.2			vPvB	Strongly stable and strongly bioaccumulative.	
16.2.			LD <sub>50</sub>	Lethal dose, 50%	
			LC <sub>50</sub>	Lethal concentration, 50%	
			STOT-SE	Specific target organ toxicity - single exposure	
16.3.	Key literature references and source of data:		-		
16.4.	Relevant H statements (number		r and full text)		
	H302		Harmful if swallowed.		
	11.	H318	Causes serious eye damage.		
	H:	H351	Suspected of causing cancer.		
		H410	Very toxic to a	quatic life with long lasting effects.	
16.5.	Training advice:		-		
	Further information:		** "X" in the product	roduct code marks different volumes (different packagings	
16.6.			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.		

**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT**