

Trading name:	POTASSIUM PERMANGANATE				
Product code:	KPH-X**	Revision date:	21 Dec 2022	Version:	3

SECTION 1. Identification of the substance/mixture and of the company/undertaking	
1.1.	Product identifier
	Substance name: POTASSIUM PERMANGANATE
	EC No: 231-760-3
	Synonyms: Potassium (VII) manganate, Condy's crystals
	Catalogue number: KPH-X**
	REACH registration number: 01-2119480139-34-XXXX
	CAS No: 7722-64-7
	Index no.: 025-002-00-9
1.2.	Relevant identified uses of the substance or mixture and uses advised against
	Uses: For use in 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 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 person: msds@biognost.hr
	National contact: -
1.4.	Emergency telephone number
	National Protection and Rescue Directorate: 112
	Medical information: +385 1 2348 342
	Other information: -




SECTION 2. Hazards information											
2.1.	Classification of the substance or mixture										
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)										
	<table border="1"> <thead> <tr> <th>Hazard class and category code:</th> <th>Hazard statements*:</th> </tr> </thead> <tbody> <tr> <td>Ox. Sol. 2</td> <td>H272</td> </tr> <tr> <td>Acute Tox. 4 *</td> <td>H302</td> </tr> <tr> <td>Aquatic Acute 1</td> <td>H400</td> </tr> <tr> <td>Aquatic Chronic 1</td> <td>H410</td> </tr> </tbody> </table>	Hazard class and category code:	Hazard statements*:	Ox. Sol. 2	H272	Acute Tox. 4 *	H302	Aquatic Acute 1	H400	Aquatic Chronic 1	H410
Hazard class and category code:	Hazard statements*:										
Ox. Sol. 2	H272										
Acute Tox. 4 *	H302										
Aquatic Acute 1	H400										
Aquatic Chronic 1	H410										
2.1.2.	Additional information										

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*For full text of Hazard- and EU Hazard-statements: see Section 16

2.2. Label elements

Product identification:	Potassium permanganate
Identification number:	-
Authorization no.:	-
Hazard pictograms:	  
	GHS03 GHS07 GHS09
Signal word:	Danger
Hazard statements:	H272 May intensify fire; oxidizer. H302 Harmful if swallowed. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements:	P260 Do not breathe fumes. P264 Wash hands thoroughly after handling. P303+P361+P353 IF ON SKIN (or hair): 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. P314 Get medical advice/attention if you feel unwell. P501 Dispose of contents/container to the designated place.
Supplemental hazard information (EU):	Strong oxidizer

2.3. Other hazards

<p>Endocrine Disrupting Properties: No known endocrine disrupting properties</p> <p>Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.</p>

SECTION 3. Composition/information on ingredients

CAS No	EC No:	Index no.	Identification name	Weight % content (or range)
7722-64-7	231-760-3	025-002-00-9	Potassium permanganate	> 70 %

SECTION 4. First aid measures

4.1.	Description of first aid measures
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General notes:	The person who provides first aid must use personal protective equipment. Do not place anything in the mouth of the unconscious person and do not induce vomiting.
Following inhalation:	If breathing accident occurs: Provide the injured person with fresh air and enable the person to rest. If breathing is erratic or suspended, provide the person with artificial respiration (no directly mouth-to-mouth). Immediately call physician.
Following skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: get medical advice/attention.
Following eye contact:	Rinse with copious amounts of water for at least 15 minutes with eyelids open (remove contact lens if possible). If eye irritation persists: keep rinsing for a longer period of time and get medical advice/attention.
Following ingestion:	Do not induce vomiting. Rinse the mouth thoroughly with water. Make the person drink up to 2.5 dcl of water. Call a POISON CENTER/physician if you feel unwell.
Self-protection of the first aider:	Use personal protective equipment.
4.2.	Most important symptoms and effects, both acute and delayed
Following inhalation:	Potassium permanganate may cause airways irritation by causing edema of upper airways, chest tightness and cough.
Following skin contact:	Concentrated solutions may cause serious irritation and burns in contact with skin. Diluted solutions may cause purple-brown skin discoloration and outer skin layer hardening.
Following eye contact:	Eye exposure may cause discoloration of the conjunctiva, as well as cornea and conjunctiva burns.
Following ingestion:	Nausea, vomiting. Risk from esophagus and stomach perforation.
4.3.	Indication of any immediate medical attention and special treatment needed
	Treat symptomatically. Airways symptoms may occur belatedly. Secure the patient's vital functions screening.

SECTION 5. Firefighting measures	
5.1.	Extinguishing media
	Suitable extinguishing media: Water spray, carbon dioxide, dry powder, alcohol resistant foam.
	Unsuitable extinguishing media: Direct water stream.
5.2.	Special hazards arising from the substance or mixture
	Hazardous combustion products: Dangerous flammable gases or fumes may form in conditions of fire.
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

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<p>Supports combustion. Keep stored away from flammable materials. Dangerous flammable gases or fumes may form in conditions of fire.</p>

SECTION 6. Accidental release measures

6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
	Protective equipment:	Use protective equipment in accordance with Section 8. Do not get in eyes or on skin. Do not inhale dust. Remove the persons not directly involved in rescuing procedure from the scene of event.
	Accident prevention methods:	Keep away from heat, flames and sparks. Secure proper ventilation. Prevent dust forming on surfaces.
	Emergency procedures:	In case of accident secure the location and evacuate the personnel not involved in recovery. Recovery of contaminated area should only be conducted by qualified person that uses stipulated protective equipment.
6.1.2.	For emergency responders:	
	Personal protective equipment for firefighters in accordance with Section 5 of this document. Personal protective equipment for other intervening personnel in accordance with Section 8 of this document.	
6.2.	Environmental precautions:	
	Prevent the product from entering the environment; in case it enters environment, it is necessary to prevent the product from reaching waterways, drainage systems and soil. In the case of considerate environment contamination, contact National protection and rescue directorate.	
6.3.	Methods and material for containment and cleaning up	
6.3.1.	For creating barriers, covering and sealing:	Cap the drains. Collect, bundle and pump out everything that got spilled. Pay attention to the possible material restrictions (see Sections 7 and 10). Collect in dry form.
6.3.2.	Cleaning up:	Collect spilled/scattered. Dispose of as hazardous waste in accordance with local and national regulations.
6.3.3.	Other information:	-
6.4.	Reference to other sections	
	See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment. See Section 13 for information about containment.	

SECTION 7. Handling and storage

7.1.	Precautions for safe handling	
7.1.1.	Protection measures	
	Measures to prevent fire:	Keep stored away from flammable materials. Keep stored away from heat / sparks / open

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		flames / hot surfaces - Do not smoke. Keep away from strong reducing agents. (See 10.3).
	Measures to prevent aerosol and dust generation:	DO NOT RAISE DUST
	Measures to protect the environment:	Keep the containers firmly closed in vertical position when the product is not used. Prevent the product from entering waterways, sewerage and drainage systems by using barrage and semi-barrage made of sand, as well as covering the drainage by using plastic foil.
	Other measures:	-
7.1.2.	Advice on general occupational hygiene:	
	No eating, drinking and smoking allowed while using the product. Wash hands after using the product and after work. Remove the contaminated clothes and protective equipment before entering the eating area. Keep work clothes separate from other clothes. Act in accordance with Good laboratory practice.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage conditions:	Keep in dry, cold and well-ventilated space, protected from moisture, direct sunlight and heat source. The containers must be tightly closed. Maintain adequate ventilation of the rooms where the product is kept and handled.
	Packaging materials:	Manufacturer's original packaging.
	Requirements for storage rooms and vessels:	Different plastic materials.
	Advices for storage equipment:	Drainage system in the warehouse must not be placed directly into the sewers. Storage space must be marked according to the Chemicals Act.
	Further information on storage conditions:	-
7.3.	Specific end use(s)	
	Recommendations:	Secure stations for rinsing eyes and showering in the vicinity of work area.
	Industrial sector specific solutions:	No information available

SECTION 8. Exposure controls/personal protection

8.1.	Control parameters				
	Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values
			ppm	mg/m ³	
	Potassium permanganate	7722-64-7	-/-	5 / -	-

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Substance name:	Potassium permanganate			
EC No:	231-760-3	CAS No:	7722-64-7	

DNEL

Industrial

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-

Critical physical parameters: solubility, flammability, corrosivity:

Consumer

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-

PNEC

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

8.2. Exposure controls

8.2.1.	Appropriate engineering controls	
	Substance/mixture related measures to prevent exposure during identified uses:	Adequate ventilation of the rooms where the product is kept and handled. Prevent dust forming on surfaces. Do not eat, drink or smoke in the workspace. Wash hands well after every pause in work.
	Structural measures to prevent exposure:	In accordance with Section 7.
	Organizational measures to prevent exposure:	Secure stations for rinsing eyes and showering in the vicinity of work area.

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	Technical measures to prevent exposure:	In accordance with Section 7.
8.2.2.	Personal protection equipment	
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face (preventing splashing) or visor.
8.2.2.2.	Skin protection	
	Hand protection:	Protective gloves. Gloves material: Nitrile rubber Layer thickness: 0.11 mm Time period until breach: > 480 min
	Other skin protection:	Protective clothes made of cotton or similar material and footwear that cover the entire foot.
8.2.2.3.	Respiratory protection:	Filter half-mask for protection from particles or half-mask with a P2 particle filter.
8.2.2.4.	Thermal hazards:	Supports combustion
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	Do not release to underground waters or in sewers. Avoid penetration to the ground. If the product endangers rivers, lakes or drain ditches, inform competent authorities.
	Structural measures to prevent exposure:	In accordance with Section 6.
	Organisational measures to prevent exposure:	In accordance with Section 6.
	Technical measures to prevent exposure:	Secure stations for rinsing eyes and showering in the vicinity of work area.

SECTION 9. Physical and chemical properties

9.1.	Information on basic physical and chemical properties		
		Value	Method
	Physical state:	powder	No information available
	Color:	dark violet	No information available
	Odour/odour threshold:	No odor	No information available
	Melting point / freezing point:	No information available	No information available
	Boiling point or initial boiling point and boiling range:	No information available	No information available
	Flammability:	No information available	No information available
	Lower and upper explosion limit:	No information available	No information available
	Flash point:	No information available	No information available
	Auto-ignition temperature:	No information available	No information available

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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	
	-	

SECTION 10. Stability and reactivity		
10.1.	Reactivity:	Strong oxidizer
10.2.	Chemical stability:	The product is stable under standard conditions.
10.3.	Possibility of hazardous reactions:	Risk of explosion with: powdered aluminium, ammonia, ammonium compounds, arsenic, dimethylformamide, acetic acid, acetic anhydride, formaldehyde, oxidisable substances, nitro compounds, phosphorus, pyridine, strong reducing agents, hydrochloric acid, sulfur, titanium, sugars, ammonium nitrate, sulfuric acid, combustible liquids, organic substances, mineral acids.
10.4.	Conditions to avoid:	No information available.
10.5.	Incompatible materials:	No information available.
10.6.	Hazardous decomposition products:	No information available.

SECTION 11. Toxicological information					
11.1. Information on toxicological effects					
Acute toxicity:					
Route of exposure:	Method	Species	Dose LD ₅₀ /LC ₅₀	Exposure time	Results
Oral exposure:	No information available	rat	LD ₅₀	No information available	750 mg/kg

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Dermal exposure:	No information available	rat	No information available	No information available	> 2.000 mg/kg
Inhalation exposure:	No information available	No information available	No information available	No information available	-

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	-

Aspiration hazard: No information available

Irritation and corrosion

	Exposure time	Species	Evaluation	Method	Note
Skin corrosion/irritation:	No information available	rabbit	-	No information available	Corrosive after 4 hours or less of exposure
Serious eye damage/irritation	No information available	No information available	-	No information available	Causes serious eye damage.

Sensitization

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

Symptoms related to the physical, chemical and toxicological characteristics

Oral exposure:	Nausea and vomiting; danger from esophagus and stomach perforation
Dermal exposure:	Concentrated solution may cause severe irritations and burns, diluted solutions can cause purple-brown skin discoloration and hardening of the outer layer of skin
Inhalation exposure:	May cause airways irritation by causing edema of upper airways, chest tightness and cough
Eye exposure:	Conjunctiva discoloration and cornea and conjunctiva burns.

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Repeated dose toxicity (subacute, subchronic, chronic)						
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

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

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Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	-
CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)			
Carcinogenicity:	No information available		
Mutagenicity <i>in-vitro</i> :	No information available		
Genotoxicity:	No information available		
Mutagenicity <i>in-vivo</i> :	No information available		
Germ cell mutagenicity:	No information available		
Reproductive toxicity:	No information available		
Summary of evaluation of the CMR properties:		No information available	
11.2. Information on other hazards:			
11.2.1. 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.			
11.2.2. Other information:			
-			

SECTION 12. Ecological information						
12.1. Toxicity						
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Poecilia reticulata (guppy)	No information available	No information available	0.47 mg/l
Crustacea:	EC ₅₀	48 hours	Daphnia magna (Water flea)	No information available	No information available	0.06 mg/l

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Algae/aquatic plants	IC ₅₀	72 hours	Desmodesmus subspicatus (green algae)	No information available	No information available	0.8 mg/l
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	-

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	pH	°C	Method	Evaluation	Note

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No information available	No information available	-	-	No information available	No information available	No information available
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Bioconcentration factor (BCF)						
Value	Species	Method		Evaluation	Note	
No information available	No information available	No information available		No information available	No information available	

Chronic ecotoxicity						
Value	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC ₅₀	No information available	No information available	No information available	No information available	-
Chronic toxicity on crustacea (Daphnia)	EC ₅₀	No information available	No information available	No information available	No information available	-

12.4. Mobility in soil

Known or predicted distribution in environmental compartments:
No information available
Surface tension:

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

Adsorption / desorption						
Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note	

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Soil-water	No available information	No information available	No information available	No information available	No information available	-
Water-air	No available information	No information available	No information available	No information available	No information available	-
Soil-air	No available information	No information available	No information available	No information available	No information available	-

12.5.	Results of PBT and vPvB assessment
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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

SECTION 13. Disposal considerations	
13.1.	Waste treatment methods
13.1.1.	Product/Packaging disposal:
	Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
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:

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SECTION 14 TRANSPORT INFORMATION

Transporting/shipment by road (ADR)

UN number:	1490
UN proper shipping name:	POTASSIUM PERMANGANATE
Transport hazard class(es):	5.1
Packing group:	II
Environmental hazard(s):	-
Special precautions for user:	-

Transporting/shipment by rail (RID)

UN number:	1490
UN proper shipping name:	POTASSIUM PERMANGANATE
Transport hazard class(es):	5.1
Packing group:	II
Environmental hazard(s):	-
Special precautions for user:	-

Transporting/shipment by inland waterways (ADN)

UN number:	1490
UN proper shipping name:	POTASSIUM PERMANGANATE
Transport hazard class(es):	5.1
Packing group:	II
Environmental hazard(s):	-
Special precautions for user:	-

Transporting/shipment by sea (IMDG)

UN number:	1490
UN proper shipping name:	POTASSIUM PERMANGANATE
Transport hazard class(es):	5.1
Packing group:	II
Environmental hazard(s):	-
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-

Transporting/shipment by air (ICAO-TI/IATA-DGR)

UN number:	1490
UN proper shipping name:	POTASSIUM PERMANGANATE

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Transport hazard class(es):	5.1
Packing group:	II
Environmental hazard(s):	-
Special precautions for user:	-
Further information:	-

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:	-
	Other EU regulations:	<p>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;</p> <p>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;</p> <p>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;</p> <p>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;</p> <p>REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII);</p>
	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, Transport of Hazardous Substances Act
15.2.	Chemical safety assessment	
	None	

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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
16.3.	Key literature references and source of data:	-
16.4.	Relevant H statements (number and full text)	
	H:	272 May intensify fire; oxidizer. 302 Harmful if swallowed. 400 Very toxic to aquatic life. 410 Very toxic to aquatic life with long lasting effects.
16.5.	Training advice:	-
16.6.	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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