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**5.4**Date of issue  
**13.05.2014**Date of review  
**02.10.2021****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**Trade name: **PROVECTA®****1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Insecticide efficacy enhancer. Physical mode of action formulation.

**1.2.2. Uses advised against**

None.

**1.3. Details of the supplier of the safety data sheet**

ICB Pharma Tomasz Świętosławski, Paweł Świętosławski Spółka Jawna

Address: Moździerzowców 6a, 43-602 Jaworzno, Poland

Phone: +48 32 745 47 00

e-mail: office@icbpharma.com

Person responsible for SDS: e-mail: sds@icbpharma.com

**1.4. Emergency telephone number:**

112 – emergency number

+48 32 745 47 00 (at working hours: 8.00 a.m. – 4 p.m.) – manufacturer number

**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****According to the Regulation (EC) No 1272/2008:**

Product is classified as hazardous.

Acute Tox. 4 H332 Harmful if inhaled

Eye Irrit. 2 H319 Causes serious eye irritation

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects

Health hazards: harmful if inhaled, irritating in contact with eyes.

Environmental hazards: toxic to aquatic life, may cause long lasting, adverse effect to aquatic environment.

Physical hazards: none.

**2.2. Label elements****According to the Regulation (WE) 1272/2008:****Pictograms:****Signal Word:****WARNING****Names of the substances to be shown on the label:**

Polyalkyleneoxide modified heptamethyltrisiloxane

**Hazard statements:**

H319 Causes serious eye irritation

H332 Harmful if inhaled

H411 Toxic to aquatic life with long lasting effects



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## Precautionary statement:

P102 Keep out of reach of children

P261 Avoid breathing mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P501 Dispose of contents/container to point authorized to receive hazardous waste.

Exemptions from labelling requirements according to Article (EC) No 1272/2008 – see Section 16.

## Additional information:

Contains: Polyalkyleneoxide modified heptamethyltrisiloxane

## 2.3. Other hazards

Product does not meet PBT or vPvB criteria according to XIII of REACH regulation.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Product is a mixture.

Hazardous ingredients content (ingredients contained in the mixture below general or specific concentration limits, not meeting PBT/vPvB criteria, not listed on the SVHC list and not having the Occupational Limit Values in work environment are not disclosed):

| Name  | Identifiers   | Concentration [% w/w] | CLP Classification   |
|---|---|-----------------------|--|
| Polyalkyleneoxide modified heptamethyltrisiloxane | CAS: 67674-67-3                                     | 80 – <100             | Acute Tox. 4 (inhal.), H332<br>Eye Irrit. 2, H319<br>Aquatic Chronic 2, H411 |
|   | EC: 614-100-2                                       |                       |  |
|   | Index No.: not available                            |                       |  |
|   | REACH registration No.:<br>Not applicable (polymer) |                       |  |

The full text of H phrases is given in section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General recommendations

If any adverse effects occur, the exposure to the product should be discontinued, if in doubt, consult a physician and show him the label or safety data sheet. The injured should be provided with access to fresh air, kept in warm and calm, and with medical assistance. If not breathing CPR may be required. In the event of loss of consciousness, the injured should be placed and, if possible, transported in a recovery position. Do not give an unconscious person anything by mouth.

#### Protection of personnel providing first aid

REMEMBER - your own safety first. Do not take any action that would create a risk to the rescuer unless suitable trained and aware of risks.

#### Contamination of the skin

Take off immediately all contaminated clothing and shoes. In the event of direct contact of the product with the skin, wash the affected area with water and soap with a pH similar to the skin's, rinse thoroughly.

#### Contamination of the eyes

flush contaminated eyes with clean water or a suitable eye wash for at least 15 minutes by opening your eyelids. Do not rub your eyes. Avoid strong water stream - risk of corneal damage. Consult an ophthalmologist



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if any adverse symptoms occur.

## Inhalation

In case of symptoms of poisoning, remove the injured from the exposure area and provide with fresh air. Consult a physician if symptoms persist or worsen.

## Ingestion

rinse mouth and throat with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. In case of feeling unwell get medical help.

## 4.2. Most important symptoms and effects, both acute and delayed

**Acute symptoms** – eyes: redness, lacrimation.

**Delayed symptoms** – no data

**Effects of exposure** – no data

## 4.3. Indication of any immediate medical attention and special treatment needed

**Note to Physician:** no specific antidote is known. The decision on how to proceed is made by a doctor after a thorough assessment of the injured person's condition. Symptomatic treatment.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Generally all media are suitable. Use foam, snow (CO<sub>2</sub>) or dry powder extinguishers to extinguish small fire. In case of large fire use foam or water mist.

#### Unsuitable extinguishing media:

No specific guide. Get surrounding material into consideration for suitability of extinguishing media. A strong water jet is NOT RECOMMENDED – risk of fire spread and environment contamination.

### 5.2. Special hazards arising from the substance or mixture

During the fire of the product following compounds might be emitted – carbon oxides, silica oxides, formaldehyde, other hazardous gases. Avoid breathing of combustion products, they might be hazardous to health.

### 5.3. Advice for fire-fighters

Obligatory use personal breathing apparatus and wear appropriate protective clothing during firefighting and cleaning after the fire inside closed and poorly ventilated rooms.

**General:** remove from the endangered area all unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary. Dispose of all ignition sources. In the event of fire, cool the vessels and storage tanks. Do not allow extinguishing agents used to extinguish the fire to get into the watercourse.

**Additional remarks:** tanks and packaging not covered by fire, exposed to fire or high temperature cool with water, from a safe distance (risk of explosion), if possible remove them from the danger area. Dispose of fire residues and contaminated fire extinguishing water in accordance with applicable regulations. Do not allow extinguishing media used to extinguish fire and extinguishing water to get into sewage system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Limit the access of bystanders to the contaminated area. In the event of large spills, isolate the affected area. Use personal protection equipment. Avoid eyes and skin contamination. Avoid direct contact with the released product. Ensure adequate ventilation.

For emergency responders:



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Follow instructions, use appropriate personal protection measures.

## 6.2. Environmental precautions

If larger quantities of the product are released, steps should be taken to prevent spreading in the wild. Avoid entering drains, groundwater, soil and open water courses. In the event of significant quantities of product getting into waters, relevant services should be notified.

## 6.3. Methods and material for containment and cleaning up

If the container is unsealed, spills occur, secure the source of the leak, pour the product into an empty container. Spilled product should be treated with a suitable sorbent (sand, sawdust, diatomaceous earth, vermiculite, universal sorbent), collected in the described containers and handed over for disposal. Clean the contamination surface. Maintenance and cleaning work should be carried out with adequate ventilation.

## 6.4. Reference to other sections

Personal protective equipment – section 8

Waste disposal – section 13

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Use only as intended. Read the label before using the product. Work in accordance with the principles of health and safety. Wash hands before breaks and after finishing work. Use personal protection equipment. Avoid eyes and skin contamination. Ensure adequate ventilation. Do not consume. Maintain cleanliness and order when handling the product.

**Specific measures against fire and explosion:** no specific requirements.

### Industrial hygiene:

- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- use general caution while working with chemical substances

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in original, tightly closed containers. Avoid water and moisture during storage. It is recommended to store absorbent material nearby (section 6.3). Do not peel off the label from the packaging. Keep out of the reach of children, keep away from food, drink and feed. Avoid the vicinity of fragrances. Store and transport at temperatures from 0 to 35 °C.

### 7.3. Specific end use(s)

No information about uses other than those mentioned in subsection 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational Exposure Limit Value:

There is no exposure standard allocated to hazardous components of this product.

#### DNELs (Derived No Effect Levels) available for mixture components:

| Exposure route | WORKERS          |       |               |       | GENERAL POPULATION |       |               |       |
|----------------|------------------|-------|---------------|-------|--------------------|-------|---------------|-------|
|                | Systemic Effects |       | Local Effects |       | Systemic Effects   |       | Local Effects |       |
|                | Long-term        | Acute | Long-term     | Acute | Long-term          | Acute | Long-term     | Acute |
| Inhalation     | n. d.            | n. d. | n. d.         | n. d. | n. d.              | n. d. | n. d.         | n. d. |
| Dermal         | n. d.            | n. d. | n. d.         | n. d. | n. d.              | n. d. | n. d.         | n. d. |
| Oral           | n. d.            | n. d. | n. d.         | n. d. | n. d.              | n. d. | n. d.         | n. d. |
| Eye            | n. d.            |       |               |       | n. d.              |       |               |       |

n.d no data

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## 8.2. Exposure controls

### Technical exposure controls:

local exhaust ventilation is necessary, which removes vapors from product emission sites, as well as general room ventilation.

### Personal protection measures:

the necessity and appropriateness of personal protective equipment should be assessed on the basis of the hazard posed by the product and the conditions in which it is used. Use personal protective equipment only from reputable manufacturers.

### Respiratory protection:

is not necessary under normal conditions with sufficient ventilation or outdoor. Required during exposure to high concentrations of vapours/mist/aerosol. Wear mask or respirator completed with the filter type A, AP or better.

### Hand protection: Wear protective gloves.

The material from which the gloves are made must be impermeable and resistant to the product. Use protective gloves made of neoprene or nitrile rubber. Min thickness 0.4 mm. If prolonged or often repeated contact with the product is expected, it is recommended to wear gloves with protection class 5 (breakthrough time greater than 240 minutes according to PN-EN 374). If only brief contact with the product is expected, it is recommended to wear gloves with protection class 3 or higher (breakthrough time greater than 60 minutes according to PN-EN 374). The resistance of materials from which gloves are made must be checked before use. Information on the permeation time of the substance from the gloves manufacturer must be obtained and this time must be observed. Gloves should be reviewed before use. Use the correct technique for removing gloves (without touching the outer surface of the glove) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable regulations. It is recommended to change gloves regularly and replace them immediately if they show any signs of wear, damage (rupture, perforation) or changes in appearance (color, elasticity, shape).

### Eye protection:

wear safety glasses when working with the product. To protect the eyes use equipment certified according to the relevant standards

### Skin protection:

use suitable protective clothing when working with the product.

### Protective equipment standards:

EN 140:2001 Respiratory protective devices – Half masks and quarter masks – Requirements, testing, marking.

EN 143:2004 Respiratory protective devices – Particle filters – Requirements, testing, marking.

EN 149+A1:2010 Respiratory protective devices – Filtering half masks to protect against particles – Requirements, testing, marking.

EN 14387+A1:2010 Respiratory protective devices – Gas filter(s) and combined filter(s) – Requirements, testing, marking.

EN 374-1:2017-01 Protective gloves against dangerous chemicals and micro-organisms – Part 1: Terminology and performance requirements for chemical risks.

EN 374-2:2015-04 Protective gloves against dangerous chemicals and micro-organisms – Part 2: Determination of penetration resistance.

EN 16523-1+A1:2018-11 Determination of material resistance to permeation by chemicals – Part 1: Permeation by potentially hazardous liquid chemicals under conditions of continuous contact.

EN 166:2005 Personal eye protection. Specifications.

EN 14605+A1:2010 Protective clothing against liquid chemicals – Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4]).

EN ISO 20344:2012 Personal protective equipment – Test methods for footwear

## Environmental exposure controls



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Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.

## PNECs (Predicted No Effect Concentrations) for mixture components:

| Environment compartment              | PNEC |
|--------------------------------------|------|
| Freshwater                           | n.d  |
| Intermittent releases (freshwater)   | n.d  |
| Marine water                         | n.d  |
| Intermittent releases (marine water) | n.d  |
| Sewage treatment plant               | n.d  |
| Sediment (freshwater)                | n.d  |
| Sediment (marine water)              | n.d  |
| Air                                  | n.d  |
| Soil                                 | n.d  |
| Hazard for Predators                 | n.d  |

n.d - no data

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|  |  |
|--|--|
| <b>Appearance:</b>                                   | clear, colourless liquid                       |
| <b>Odour:</b>  | faint, characteristic                          |
| <b>Odour threshold:</b>                              | no data  |
| <b>pH:</b>   | 5.87 (1% water emulsion)                       |
| <b>Melting point/freezing point:</b>                 | no data  |
| <b>Initial boiling point and boiling range:</b>      | no data  |
| <b>Flash point:</b>                                  | > 100 °C                                       |
| <b>Evaporation rate:</b>                             | no data  |
| <b>Flammability:</b>                                 | not applicable                                 |
| <b>Upper/lower flammability or explosive limits:</b> | not applicable                                 |
| <b>Vapour pressure:</b>                              | no data  |
| <b>Vapour density:</b>                               | no data  |
| <b>density (20°C):</b>                               | 1.01 – 1.02                                    |
| <b>Solubility in water:</b>                          | insoluble, emulsifies at 0.1 to 1.0 %          |
| <b>Partition coefficient: n-octanol/water:</b>       | not applicable                                 |
| <b>Auto-ignition temperature:</b>                    | no data  |
| <b>Decomposition temperature:</b>                    | no data  |
| <b>Viscosity:</b>                                    | no data  |
| <b>Explosive properties:</b>                         | none, no ingredients with explosive properties |
| <b>Oxidising properties:</b>                         | none, no ingredients with oxidizing properties |

### 9.2. Other information

No data.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

the product does not show reactivity under recommended storage and use conditions.

### 10.2. Chemical stability:

product is stable under normal conditions.

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no data.

**10.4. Conditions to avoid:**

high temperature, direct sunlight, humidity.

**10.5. Incompatible materials:**

no data.

**10.6. Hazardous decomposition products:**

under recommended conditions of storage and handling product does not decompose with evolution of hazardous decomposition products.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients.

**Acute toxicity:**Acute Oral Toxicity: product does not meet criteria for classification,  $ATE_{mix} > 2000$  mg/kgAcute Dermal Toxicity: product does not meet criteria for classification,  $ATE_{mix} > 2000$  mg/kgAcute Inhalation Toxicity: product does not meet criteria for classification,  $ATE_{mix} = 11.0$  mg/L (dust and mists)

Product is classified as harmful if inhaled.

**Skin corrosion/irritation:**

based on available data, the classification criteria are not met.

**Serious eye damage/irritation:**

product classified as causing serious eye irritation.

**Respiratory or skin sensitisation:**

based on available data, the classification criteria are not met.

**Germ cell mutagenicity:**

product does not contain any compounds with germ cell mutagenicity hazard.

**Carcinogenicity:**

product does not contain any compounds with carcinogenic hazard.

**Reproductive toxicity:**

product does not contain any compounds with reprotoxic hazard.

**STOT-single exposure:**

product does not meet criteria for classification.

**STOT-repeated exposure:**

product does not meet criteria for classification.

**Aspiration hazard:**

product does not meet criteria for classification.

**Potential health hazards:****Ingestion:** may cause digestive system irritation**Inhalation:** harmful, may be irritating to respiratory system.**Skin:** irritation, possible allergic reaction.**Eyes:** irritation.**Available toxicological data for components of the product (polymeric silica compounds):**Acute toxicity, oral (*rat*) LD50: >2000 mg/kgAcute toxicity, skin (*rat*) LD50: >4000 mg/kgAcute toxicity, inhalation (*rat*): LC50 = 2 mg/l/4h (aerosol)Skin irritation (*rabbit*): no skin irritationEye irritation (*rabbit*): strongly irritatingSensitization (*guinea pig*): not sensitizingRepeated dose toxicity, oral (*rat*): NOAEL:150 mg/kg (28 days)

Germ cell mutagenicity:

- Ames-Test, result: negative (not mutagenic)



- Chromosomal aberration, result: negative
- Mammalian cytogenicity test, result: negative
- Micronucleus Test (OECD 474), result: negative

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity:

Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients.

Classified as toxic to aquatic life with long lasting effects, category 2.

### 12.2. Persistence and degradability:

Product has not been tested for biodegradation, but it is not expected to be readily biodegradable based on test results from a chemically similar product. However, this product is subject to rapid hydrolysis under acidic or basic conditions.

### 12.3. Bioaccumulative potential:

No data

### 12.4. Mobility in soil:

No data

### 12.5. Results of PBT and vPvB assessment:

Product does not meet the criteria for PBT or vPvB according to Annex XIII of REACH regulation

### 12.6. Other adverse effects:

No data

### Available ecotoxicological data for components of the product (polymeric silica compounds):

Acute toxicity to fish (*Danio rerio*): LC<sub>50</sub> (96 h): 6.8 mg/L

Acute toxicity to freshwater invertebrates (*Daphnia magna*): EC<sub>50</sub> (48 h): 25 mg/L

Acute toxicity to algae (*Pseudokirchneriella subcapitata*): EC<sub>50</sub> (96h): 32 mg/L

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods:

#### Waste from residues/unused products:

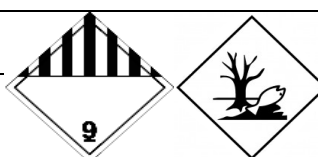
Unused remains keep in original containers. Get the wastes to the establishment authorized for transport, recovery and disposal of wastes. Residues of the product should be treated as hazardous waste. Disposal should be made through a company authorized to dispose of hazardous waste, in accordance with national and local regulations.

#### Disposing of the packaging:

Recycling or disposal of empty packaging must be performed in compliance with current legislation. Do not mixed with other wastes.

## SECTION 14: TRANSPORT INFORMATION

|  |   |
|--|---|
| <b>14.1. UN number:</b>                  | 3082  |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS substances, liquid, N.o.s (Polyalkyleneoxide modified heptamethyltrisiloxane) |
| <b>14.3. Transport hazard class(es):</b> | 9   |







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| <b>14.4. Packing group:</b>   | III   |
| <b>14.5. Environmental hazards:</b>   | Yes   |
| <b>14.6. Special precautions for user:</b>                                      |   |
| <b>Road transport (ADR)</b>   | Classification code: M6<br>Labels: 9<br>Hazard identification No: 90<br>Packing instructions: P001, IBC03, LP01, R001<br>Transport category (tunnel restriction code): 3 (E)<br><br>Special provision 375: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8   |
| <b>Air transport (IATA DGR)</b>   | Class or Div.: 9<br>Hazard Label: Miscellaneous<br>Passanger and Cargo Aircraft PI: 964<br>Cargo Aircraft Only PI: 964<br><br>Special provision A197: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8   |
| <b>See transport (IMDG):</b>  | EmS codes: F-A, S-F<br>Marine pollutant: yes<br><br>Provision 2.10.2.7 of IMDG CODE:<br>"Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.<br>In the case of marine pollutants also meeting criteria for inclusion in another hazard class, all provision of this Code relevant to any additional continue to apply" |
| <b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b> | not applicable  |

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on



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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

- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

- European agreement concerning international road transport of dangerous products (ADR)

- Federal, State and Local regulations.

## 15.2. Chemical safety assessment

Chemical safety assessment was not conducted for the product.

## SECTION 16. OTHER INFORMATION

Explanation of abbreviations and acronyms used in safety data sheet

Full text of H phrases:

H319 – Causes serious eye irritation.

H332 – Harmful if inhaled.

H411 – Toxic to aquatic life with long lasting effects.

Acute Tox. 4 (inhal.) – Acute Toxicity, category 4 (inhalation)

Aquatic Chronic 2 – Hazardous to the aquatic environment, with long lasting effects, category 2

Eye Irrit. 2 – Serious eye Irritation, category 2

**ADR** European Agreement concerning the International Carriage of Dangerous Goods by Road under framework Directive 94/55/EC, as amended

**ATE** Acute Toxicity Estimate: acute toxicity values are expressed as (approximate) LD50 (oral, dermal) or LC50 (inhalation) values or as ATEs.

**CAS** Chemical Abstracts Service

**CPR** Cardio-pulmonary resuscitation

**DNEL** derived no-effect level

**EC50** median effective concentration

**EINECS** European Inventory of Existing Commercial Chemical Substances

**GHS** (United Nations) Globally Harmonised System of Classification and Labelling of Chemicals: it defines the criteria internationally agreed by the United Nation Economic and Social Council (UN ECOSOC) for the classification and labelling of hazardous substances and mixtures

**ICAO** International Civil Aviation Organisation, refers to Annex 18 to the Convention on International Civil Aviation The Safe Transport of Dangerous Goods by Air

**IMDG** International Maritime Dangerous Goods Code for the transport of dangerous goods by sea

**IUPAC** International Union of Pure and Applied Chemistry

**LOEC** Lowest Observed Effect Concentration

**LD50** Lethal Dose; dose at which 50% of the animals will be expected to die.

**LC50** Lethal Concentration; standard measure of the toxicity of the surrounding medium that will kill half of the sample population of a specific test-animal in a specified period through exposure via inhalation

**NOEC** No Observed Effect Concentration

**M factor** Multiplying factor

**NICNAS** (Australia) National Industrial Chemicals Notification and Assessment Scheme

**NIOSH** (United States) National Institute of Occupational Safety and Health

**OECD** Organisation for Economic Cooperation and Development

**OSHA** (United States) Occupational Safety and Health Administration

**PBT** Persistent, bioaccumulative and toxic

**PNEC** Predicted No Effect Concentration

**(Q)SAR** (Quantitative) Structure-Activity Relationships

**RTGD** (United Nations) Recommendations on the Transport of Dangerous Goods

**RTECS** Registry of Toxic Effects of Chemical Substances

**SVHC** Substance of Very High Concern

**Toxline** Toxicology Literature Online database

**TOXNET** Toxicology Data Network



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**UFI** Unique Formula Identifier

**US EPA** United States Environmental Protection Agency

**vPvB** very Persistent and very Bioaccumulative

This SDS was prepared in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Classification of the product was based on the content of ingredients and according to 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

## Training

Before handling with the product, the user should be familiar with the principles of health and safety regarding the handling of chemicals, and in particular undergo appropriate workplace training.

## References to key literature and data sources

The safety data sheet for this product has been create on the basis of a safety data sheet provided by the manufacturer, literature data, online databases and possessed knowledge and experience, taking into account the currently applicable to actual legislation.

## Changes from the previous version of the safety data sheet:

Edition 5.5- editorial changes in sections 1-16

The above information is based on currently available data characterizing the product as well as the experience and knowledge possessed by the manufacturer in this topic. It do not constitute a quality description of the product or promise of specific properties. It should be treated as an aid for safe handling during transport, storage and use of the product. This does not release the user from liability for incorrect use of the above information and from compliance with all legal regulations in this area.

End of the document