## SECTION 1: IDENTIFICATION OF THE ~~SUBSTANCE~~/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Trade name: **SILTAC SF**
UFI: **6Q00-007W-200W-4KSG**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**1.2.1. Relevant identified uses**
Product against crop pests by physical mode of action.

**1.2.2. Uses advised against**
Use inconsistent with the information provided on the product label.

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

***ICB Pharma Tomasz Świętosławski Paweł Świętosławski Spółka Jawna***
Address: ul. Moździerzowców 6a
43-602 Jaworzno
Phone: +48 32 745 47 00
e-mail: office@icbpharma.com
Person responsible for SDS: 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. |

| | |
|---|---|
| Physical/chemical hazards: | none. |
| 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. |

### 2.2. Label elements

**According to the Regulation (WE) 1272/2008:**
**Pictograms:**

**Signal word:**
**WARNING**

**Hazard statements:**

| | |
|---|---|
| H332 | Harmful if inhaled. |
| H319 | Causes serious eye irritation. |

| | |
|---|---|
| H411 | Toxic to aquatic life with long lasting effects. |

**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, 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. |

**Additional labelling requirements:**
Substance names to show on the label:
polyalkyleneoxide modified heptamethyltrisiloxane

### 2.3. Other hazards

Product does not met PBT or vPvB criteria according to XIII of REACH regulation.
Product contains a vPvB substance.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable.

### 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 | CLP Classification |
|---|---|---|---|
| Polyalkyleneoxide modified heptamethyltrisiloxane[2)] | CAS: 67674-67-3<br>EC: 614-100-2<br>Index No: not applicable<br>REACH reg. No: not applicable[1)] | 70 - <100% w/w | Acute Tox. 4 (inhal.), H332<br>Eye Irrit. 2, H319<br>Aquatic Chronic 2, H411 |
| 2-propanol[3)] | CAS: 67-63-0<br>EC: 200-661-7<br>Index No: 603-117-00-0<br>REACH reg. No: 01-2119457558-25-XXXX | 0,1-<1% w/w | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |

[1)] the substance does not have a REACH registration number in accordance to art. 2 (9) of the REACH Regulation
[2)] the substance is vPvB
[3)] the substance has got the Occupational Limit Values in work environment – details provided in section 8.

Full text of H phrases is provided in Section 16.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

## 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 an 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 safety first. Do not take any action that would pose 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 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**

| | |
|---|---|
| Inhalation: | respiratory irritation |
| Skin contamination: | irritation |
| Eye contamination: | redness, tearing lacrimation |
| Ingestion: | nausea, abdominal pain |

**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 ($CO_2$) 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 firefighters

Obligatory use personal breathing apparatus and wear appropriate protective clothing during firefighting and cleaning after the fire inside closed and poorly ventilated rooms. Firefighters should wear appropriate protective equipment and self-contained breathing apparatus with a full-face, positive pressure mask. The basic level of protection for firefighters is provided by protective clothing in accordance with the European

standard EN 469.

**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 notes:** tanks and packages not covered by fire, exposed to fire or high temperature should be cooled with water, from a safe distance (risk of explosion), if possible, remove them from the danger area. Dispose of fire residues and contaminated extinguishing water in accordance with the relevant regulations. Do not allow the extinguishing agents used to fight the fire and the extinguishing water to enter the 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:**
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. Remove contaminated clothing and protective equipment before entering eating areas.

**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 packaging, away from direct sunlight, in a dry, cool and well-ventilated

room. Avoid water and moisture during storage. Store locked up. It is recommended to keep the absorbent material nearby (section 6.3). Do not remove the label from the package. Do not reuse the container. The container must be stored in an upright position to prevent leakage of the mixture. Keep out of the reach of children, keep away from food, drink and fodder. Avoid the vicinity of fragrances. Store and transport at temperatures from 0 to 35ºC.

### 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 exposure standard allocated to hazardous components of this product: Propan-2-ol, CAS: 67-63-0 has established TLV. Checking national legislation for exact concentrations and methods of control of workspace is mandatory.

| | |
|---|---|
| **Substance** | Propan-2-ol |
| **CAS No.** | 67-63-0 |

| | Limit value - Eight hours | | Limit value - Short term | |
|---|---|---|---|---|
| | ppm | mg/m³ | ppm | mg/m³ |
| **Australia** | 400 | 983 | 500 | 1230 |
| **Austria** | 200 | 500 | 800 | 2000 |
| **Belgium** | 200 | 500 | 400 (1) | 1000 (1) |
| **Canada - Ontario** | 200 | | 400 | |
| **Canada - Québec** | 200 | | 400 (1) | |
| **Denmark** | 200 | 490 | 400 | 980 |
| **Finland** | 200 | 500 | 250 (1) | 620 (1) |
| **France** | | | 400 | 980 |
| **Germany (AGS)** | 200 | 500 | 400 (1) | 1000 (1) |
| **Germany (DFG)** | 200 | 500 | 400 (1) | 1000 (1) |
| **Hungary** | | 500 (1) | | 1000 (1)(2) |
| **Ireland** | 200 | | 400 (1) | |
| **Japan (MHLW)** | 200 | | | |
| **Japan (JSOH)** | 400 (1) | 980 (1) | | |
| **Latvia** | | 350 | | 600 (1) |
| **New Zealand** | 400 | 983 | 500 | 1230 |
| **Norway** | 100 | 245 | | |
| **People's Republic of China** | | 350 | | 700 (1) |
| **Poland** | | 900 | | 1200 |
| **Romania** | 81 | 200 | 203 (1) | 500 (1) |
| **Singapore** | 400 | 983 | 500 | 1230 |
| **South Africa** | 400 | | 800 (1) | |
| **South Africa Mining** | 400 | 980 | 500 (1) | 1225 (1) |

| | | | | |
|---|---|---|---|---|
| **South Korea** | 200 | | 400 (1) | |
| **Spain** | 200 | 500 | 400 | 1000 |
| **Sweden** | 150 | 350 | 250 (1) | 600 (1) |
| **Switzerland** | 200 | 500 | 400 | 1000 |
| **USA - NIOSH** | 400 | 980 | 500 (1) | 1225 (1) |
| **USA - OSHA** | 400 | 980 | | |
| **United Kingdom** | 400 | 999 | 500 | 1250 |

| | **Remarks** |
|---|---|
| **Belgium** | (1) 15 minutes average value |
| **Canada - Québec** | (1) 15 minutes average value |
| **Finland** | (1) 15 minutes average value |
| **Germany (AGS)** | (1) 15 minutes average value |
| **Germany (DFG)** | (1) 15 minutes average value |
| **Hungary** | (1) Skin (2) 15 minutes average value |
| **Ireland** | (1) 15 minutes reference period |
| **Japan (JSOH)** | (1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day |
| **Latvia** | (1) 15 minutes average value |
| **People's Republic of China** | (1) 15 minutes average value |
| **Romania** | (1) 15 minutes average value |
| **South Africa** | (1) 15 minutes average value |
| **South Africa Mining** | (1) 15 minutes average value |
| **South Korea** | (1) 15 minutes average value |
| **Sweden** | (1) 15 minutes average value |
| **USA - NIOSH** | (1) 15 minutes average value |

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

**Polyalkyleneoxide modified heptamethyltrisiloxane**
*CAS: 67674-67-3*
*EC: 614-100-2*

| **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

**2-propanol**
*CAS: 67-63-0*
*EC: 200-661-7*

| 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** | 500 mg/m$^3$ | 1000 mg/m$^3$ | n.h.i | n.h.i | 89 mg/m$^3$ | 178 mg/m$^3$ | n.h.i | n.h.i |
| **Dermal** | 888 mg/kg bw/day | n.h.i | n.h.i | n.h.i | 319 mg/kg bw/day | n.h.i | n.h.i | n.h.i |
| **Oral** | n.d | n.d | n.d | n.d | 26 mg/kg bw/day | 51 mg/kg bw/day | n.d | n.d |
| **Eye** | l.h | | | | l.h | | | |

n.d - no data
n.h.i – no hazard identified
m.h- medium hazard (no threshold derived)
l.h- low hazard (no threshold derived)

## 8.2. Exposure controls

**Technical exposure controls:**
local exhaust ventilation is necessary, which removes vapours 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. Normally recommended to wear cloth masks or protective masks with a particle filter P2 or respirator completed with the filter type K 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).
In case of frequent or prolonged contact, protective hand cream should be used at the end of the work.

**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**
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:**

**Polyalkyleneoxide modified heptamethyltrisiloxane**
*CAS: 67674-67-3*
*EC: 614-100-2*

| **Environment compartment** | **PNEC** |
|---|---|
| Freshwater: | No data |
| Intermittent releases (freshwater): | No data |
| Marine water: | No data |
| Intermittent releases (marine water): | No data |
| Sewage treatment plant: | No data |
| Sediment (freshwater): | No data |
| Sediment (marine water): | No data |
| Air: | No data |
| Soil: | No data |
| Hazard for Predators: | No data |

**2-propanol**
*CAS: 67-63-0*
*EC: 200-661-7*

| **Environment compartment** | **PNEC** |
|---|---|
| Freshwater: | No hazard identified |
| Intermittent releases (freshwater): | No hazard identified |
| Marine water: | No hazard identified |
| Intermittent releases (marine water): | No hazard identified |
| Sewage treatment plant: | No hazard identified |
| Sediment (freshwater): | No hazard identified |
| Sediment (marine water): | No hazard identified |
| Air: | No hazard identified |
| Soil: | No hazard identified |
| Hazard for Predators: | No potential for bioaccumulation |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

| | |
|---|---|
| **Physical state:** | Liquid |
| **Colour:** | Colourless to straw yellow |

| | |
|---|---|
| **Odour:** | Faint, characteristic |
| **Melting point/freezing point:** | No data |
| **Boiling point or initial boiling point and boiling range:** | No data |
| **Flammability:** | Not applicable |
| **Lower and upper explosion limit:** | Not applicable |
| **Flash point:** | >100 °C |
| **Auto-ignition temperature:** | No data |
| **Decomposition temperature:** | No data |
| **pH:** | 5,87 (1% emulsion) |
| **Kinematic viscosity:** | Not applicable |
| **Solubility:** | insoluble, emulsifies at 0,1 to 1,0% |
| **Partition coefficient n-octanol/water (log value):** | Not applicable |
| **Vapour pressure:** | No data |
| **Density and/or relative density:** | 1,01-1,02 g/cm$^3$ (20°C) |
| **Relative vapour density:** | No data |
| **Particle characteristics:** | No data; product does not contain the substance as a nano-form |

### 9.2. Other information

**Information with regard to physical hazard classes**
No additional data.

**Other safety characteristics**
No additional data.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Product does not show reactivity under recommended storage and use conditions.

### 10.2. Chemical stability

Product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data.

### 10.4. Conditions to avoid

Direct sunlight, humidity, moisture, high temperatures.

### 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. Hazardous decomposition products may be developed under thermal decomposition (fire).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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 met criteria for classification.
Acute Dermal Toxicity: product does not met criteria for classification.

Acute Inhalation Toxicity: product does met criteria for classification, ATEmix = 1,51 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 may cause respiratory irritation.
**STOT-repeated exposure:**
based on available data, the classification criteria are not met.
**Aspiration hazard:**
based on available data, the classification criteria are not met.

**Toxicological data for hazardous components:**

**Polyalkyleneoxide modified heptamethyltrisiloxane**
*CAS: 67674-67-3*
*EC: 614-100-2*

**Acute toxcity**

| Exposure route | Value | Species | Additional data |
|---|---|---|---|
| Oral | LD50 > 2000 mg/kg | Rat | OECD Guideline 401 |
| Dermal | LD50 > 4000 mg/kg | Rat | OECD Guideline 402 |
| Inhalation | LC50 0,907-2,644 mg/L | Rat | OECD Guideline 433; moderately toxic after single exposure |

**Skin corrosion/irritation:**
Rabbit, no skin irritation (OECD Guideline 404)
**Serious eye damage/irritation:**
Rabbit, 4h, strongly irritating (OECD Guideline 405)
**Respiratory or skin sensitisation:**
Guinea Pig, did not cause sensitization on laboratory animals
**Germ cell mutagenicity:**
*In vitro:*
- OECD 473, non-clastogenic to human lymphocytes
*In vivo:*
- Micronucleus Test ,OECD 474, negative, not mutagenic
**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 may cause respiratory irritation.
**STOT-repeated exposure:**
based on available data, the classification criteria are not met.
**Aspiration hazard:**
based on available data, the classification criteria are not met.

**Potential health hazards:**
**Ingestion:** nausea, abdominal pain,

**Inhalation:** cough, sore throat, irritation of the respiratory tract
**Skin**: irritating effect, possible allergic reaction, redness, rash, pruritus
**Eyes**: irritating effect, redness, tearing

### 11.2. Information on other hazards
No relevant data.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity
Product was not tested for environmental hazards. Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients. According to regulation 1272/2008 product is classified as toxic to environment.

Classified as toxic to aquatic life with long lasting effects (hazard 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.

**Polyalkyleneoxide modified heptamethyltrisiloxane**
*CAS: 67674-67-3*
*EC: 614-100-2*

OECD 301B ($CO_2$ Evolution Test): 62%.
The product is not readily biodegradable.

### 12.3. Bioaccumulative potential
No information available.

### 12.4. Mobility in soil
No information available.

### 12.5. Results of PBT and vPvB assessment
Product does not met the criteria for PBT or vPvB according to Annex XIII of REACH regulation.
This mixture contains constituents considered to be very persistent and very bioaccumulating (vPvB) of 0.1% or more.

### 12.6. Endocrine disrupting properties
The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects
With proper handling of the mixture, no negative effects should be expected.

### Ecotoxicological data for hazardous components:

**Polyalkyleneoxide modified heptamethyltrisiloxane**
*CAS: 67674-67-3*
*EC: 614-100-2*

**Acute toxicity**

| Trophic level | Value | Species | Additional data |
|---|---|---|---|
| **Fish** | $LC_{50}$ 4,9 mg/L | - | OECD 203 |
| | $LC_{50}$ 4,5 mg/L | *Oncorhynchus mykiss* | 96 hours |
| | NOEC 3,2 mg/L | *Oncorhynchus mykiss* | 96 hours |
| **Invertebrates** | $EC_{50}$ 24 mg/L | *Daphnia magna* | OECD 201 |

| **Polyalkyleneoxide modified heptamethyltrisiloxane**<br>*CAS: 67674-67-3*<br>*EC: 614-100-2* | | | |
|---|---|---|---|
| **Acute toxicity** | | | |
| **Trophic level** | **Value** | **Species** | **Additional data** |
| **Invertebrates** | $EC_{50}$ 24 mg/L | *Daphnia magna* | 48 hours |
| | NOEC 5,6 mg/L | *Daphnia magna* | 48 hours |
| **Algae** | $EC_{50}$ 8,2 mg/L | - | - |

| **Propan-2-ol**<br>*CAS: 67-63-0*<br>*EC: 200-661-7* | | | |
|---|---|---|---|
| **Acute toxicity** | | | |
| **Trophic level** | **Value** | **Species** | **Additional data** |
| **Fish** | $LC_{50}$ 8,970 mg/L | *Leuciscus idus* | 48 hours |
| | $LC_{50}$ > 65,5 mg/L | *Pimephales promelas* | 96 hours |
| **Invertebrates** | $EC_{50}$ >10.000 mg/L | *Daphnia magna* | 24 hours |
| | $EC_0$ 500 mg/L | *Daphnia magna* | - |

## 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.

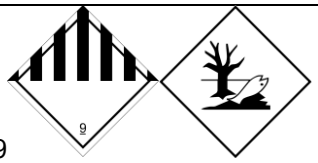
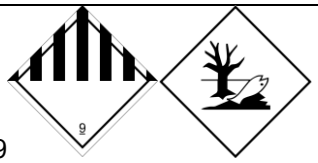
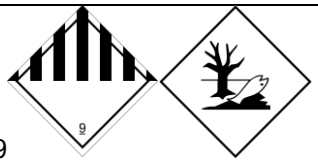
**Disposing of the packaging:**
Recycling or disposal of empty packaging must be performed in compliance with current legislation. Do not mixed with other wastes.

## SECTION 14: TRANSPORT INFORMATION

The product is a dangerous goods in transport.

| **14.1. UN number or ID number** | | |
|---|---|---|
| **ADR** | **IMDG Code** | **IATA DGR** |
| UN 3082 | UN 3082 | UN 3082 |

| **14.2. UN proper shipping name** | | |
|---|---|---|
| **ADR** | **IMDG Code** | **IATA DGR** |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S (Polyalkyleneoxide modified heptamethyltrisiloxane) | ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S (Polyalkyleneoxide modified heptamethyltrisiloxane) | ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S (Polyalkyleneoxide modified heptamethyltrisiloxane) |

| **14.3. Transport hazard class(es)** | | |
|---|---|---|
| **ADR** | **IMDG Code** | **IATA DGR** |
|  <br>9 |  <br>9 |  <br>9 |

| **14.4. Packing group** | | |
|---|---|---|
| **ADR** | **IMDG Code** | **IATA DGR** |
| III | III | III |

| **14.5. Environmental hazards** | | |
|---|---|---|
| **ADR** | **IMDG Code** | **IATA DGR** |
| YES | YES | YES |

| **14.6. Special precautions for user** | | |
|---|---|---|
| **ADR** | **IMDG Code** | **IATA DGR** |
| 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 | 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” | 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 |

**14.7. Maritime transport in bulk according to IMO instruments**

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 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) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),

-- Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

*Propan-2-ol*
**P5a** – FLAMMABLE LIQUIDS

— Flammable liquids, Category 1, or
— Flammable liquids Category 2 or 3 maintained at a temperature above their boiling point, or
— Other liquids with a flash point ≤ 60 °C, maintained at a temperature above their boiling point
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of:
- Lower-tier requirements – 10 t
- Upper-tier requirements – 50 t

*Propan-2-ol*
**P5b** FLAMMABLE LIQUIDS
— Flammable liquids Category 2 or 3 where particular processing conditions, such as high pressure or high temperature, may create major-accident hazards, or
— Other liquids with a flash point ≤ 60 °C where particular processing conditions, such as high pressure or high temperature, may create major-accident hazards
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of:
- Lower-tier requirements – 50 t
- Upper-tier requirements – 200 t

*Propan-2-ol*
**P5c** FLAMMABLE LIQUIDS
— Flammable liquids, Categories 2 or 3 not covered by P5a and P5b
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of:
- Lower-tier requirements – 5000 t
- Upper-tier requirements – 50000 t

*Polyalkyleneoxide modified heptamethyltrisiloxane*
**E2** Hazardous to the Aquatic Environment
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of:
- Lower-tier requirements – 200 t
- Upper-tier requirements – 500 t

- European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste,

- 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 the H-phrases, mentioned in section 3 of the safety data sheet:

**H319** – Causes serious eye irritation.
**H225** – Highly flammable liquid and vapour.
**H332** – Harmful if inhaled.
**H336** – May cause drowsiness or dizziness.
**H411** – Toxic to aquatic life with long lasting effects.

Explanation of abbreviations:

**Acute Tox. 4 (inhal.)** – Acute Toxicity, category 4, inhalation route
**Aquatic Chronic 2 –** Hazardous to Aquatic Environment, chronic, category 2
**Eye Irrit. 2** – Serious damage to eyes/Eye irritation, category 2
**Flam. Liq. 2** – Flammable liquid, category 2

**STOT SE 3** – Specific target organ toxicity - single exposure, category 3

Explanations of of acronyms:

**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
**DNEL** derived no-effect level
**EC number** unique seven-digit identifier assigned to substances for regulatory purposes withing European Inventory of Existing Commercial Chemical Substances (EINECS)
**EC50** median effective concentration
**EINECS** European Inventory of Existing Commercial Chemical Substances
**GHS** (United Nations) Globally Harmonised System of Classification and Labelling of Chemicals
**ICAO** International Civil Aviation Organisation
**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** Lenthal 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
**OECD** Organisation for Economic Cooperation and Development
**PBT** Persistent, bioaccumulative and toxic
**PNEC** Predicted No Effect Concentration
**(Q)SAR** (Quantitative) Structure-Activity Relationships
**SVHC** Substance of Very High Concern
**UFI** Unique Formula Identifier
**vPvB** very Persistent and very Bioaccumulative

This SDS was prepared in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006.

Classification of the product was based on the content of ingredients and according to Regulation (EC) No 1272/2008 (calculation method).

**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:**
Version 2.0 – changes have been made based on the requirements of Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006, editorial changes in sections 1-16 have been done in accordance with the current data presented in the safety data sheets of the substances in the composition of the product.

END OF SAFETY DATA SHEET