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

1.1. Product identifier

Trade name: **SILTAC EC**

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

1.2.1. Relevant identified uses

Physical mode of action formulation for control of plant pests.

1.2.2. Uses advised against

No data

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

Tel.: +48 32 6600006

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e-mail: office@icbpharma.pl

Osoba odpowiedzialna za kartę: Dawid Liszka; e-mail: david@icbbpharma.pl

1.4. Emergency telephone number:

+48 32 6600006 (active at 8:00 – 16:00 h)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

According to the Regulation (WE) no 1272/2008 (as amended)

Acute toxicity 4 (inh) Hazard Category 4 with assigned phrase stating the type of hazard
 H332 Harmful if inhaled

Eye irritation, Hazard Category 2 with assigned phrase stating the type of hazard
 H319 Causes serious eye irritation

Aquatic Chronic 2 Hazard Category 2 with assigned phrase stating the type of hazard
 H411 Toxic to aquatic life with long lasting effects

Health hazard: product is harmful if inhaled, irritant in contact with eyes

Environmental Hazards: product classified as toxic to environment, may cause long-term adverse effects in the aquatic environment

Physical/chemical hazards: no data

Fire hazard: no data

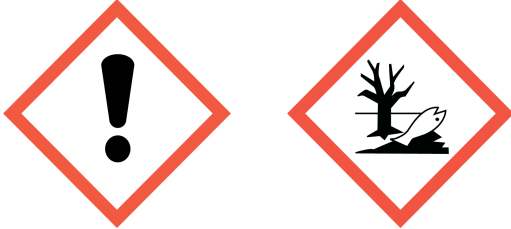
Additional remark: Product in the ready for use form (up to 1.0% water emulsion) is not irritating to skin, eyes and respiratory tract.

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2.2. Label elements

According to the Regulation (WE) 1272/2008

Pictograms:



Signal Word: **Warning**

Hazard statements:

H319 Causes serious eye irritation
 H332 Harmful if inhaled
 H411 Toxic to aquatic life with long lasting effects

Precautionary Statement:

General:

P101 If medical advice is needed, have product container or label at hand
 P102 Keep out of reach of children

Prevention:

P261 Avoid breathing mist/vapours/spray
 P273 Avoid release to the environment
 P280 Wear protective gloves/protective clothing/eye protection/face protection

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P337 + P313 If eye irritation persists: Get medical advice/attention

Storage:

-

Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulation

Hazardous Ingredient: polymeric silicone compounds

2.3. Other hazards:

The mixture doesn't meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

The product is a mixture. Chemical composition: Polyalkyleneoxide Modified Heptamethyltrisiloxane (CAS 67674-67-3), polydimethylsiloxane (CAS 63148-62-9), harmless additives.

The classification of hazardous substances contained in the product are given in Table 3.1 of Annex VI to the Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 including its amends, REACH data, the manufacturer and available literature data.

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No CAS	No EINECS	Index number	REACH registration number	Chemical name	Quantity	Hazard category	Phrases H
67674-67-3	polymer	not assigned	polymer – not required registration	Polyalkyleneoxide Modified Heptamethyltrisiloxane / polymeric silicone compounds	> 25 % w/w	Acute Tox. 4 (inh), Eye Irrit. 2, Aquatic Chronic 2	H332, 319, 411

For the wording of the listed risk phrases and hazard category refer to section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General recommendations

Remove the injured person from a polluted environment. Place in a lateral position. Provide fresh air and heat. In the event of health problems, immediately contact doctor. Show MSDS of product.

Protection of first aid responders

Do not take any action that would create a risk to the rescuer unless suitable training.

Contamination of the skin: Remove contaminated clothing. Contaminated areas of the skin wash thoroughly water with soap. In the case of persistent irritation consult a doctor.

Contamination of the eyes: Flush contaminated eyes with wide-open eyelids a continuous stream of water for about 15 minutes. In the case of persistent irritation consult an ophthalmologist.

Inhalation: After inhalation of aerosol/mist seek medical advice immediately. Artificial respiration and/or oxygen may be necessary.

Ingestion: Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

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

Acute symptoms – irritating of eyes (redness, pain, 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, treat symptomatically.

In case of contact with the company emergency number or Poison Control Centre person should have a product container, label or this MSDS.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: CO₂, alcohol-resistant foams, water spray

Extinguishing media which must not be used for safety reasons: solid stream of water

5.2. Special hazards arising from the substance or mixture

The combustion / thermal decomposition of the product may produce carbon oxides, silicone oxide, formaldehyde, other harmful gases. Avoid inhalation of combustion products, may pose a threat to health.

5.3. Advice for firefighters

Strictly apply the breathing apparatus and protective clothing for fire fighting or during clean-up work immediately after a fire in an enclosed, or poorly ventilated areas.

General: inform about the fire, call the appropriate emergency services. Remove from the endangered area

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unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary.

Additional notes: Cool closed containers exposed to fire with water spray. Packaging which are not covered by the fire, exposed to fire or high temperature should be if possible removed from the hazardous area. Fire residues and contaminated waters dispose in according to applicable regulations. Do not introduce contaminated waters into drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use recommended personal protective equipment. Avoid direct contact with releasing product (liquid, vapours). Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not allow to enter drains, groundwater, soil and open water courses. Spilled product should be protected against spreading using dams or barriers. In case of water contamination inform local authorities.

6.3. Methods and material for containment and cleaning up

Protect damaged packaging. Try to cut off the source of environmental contamination (seal damaged container and put in an emergency container.) Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Incinerate or take to a special waste disposal site in accordance with local authority regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Ventilate the room.

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

Avoid contact with eyes and skin. Do not taste or swallow. Wash hands and face after handling. Avoid inhalation of vapors and spray mists. Ensure adequate ventilation /exhaust in the workplace, prevent the formation of harmful concentrations of vapours in the air, work in well ventilated areas. Observe good personal hygiene and wear protective clothing in accordance with information set out in section 8.

Special measures for protection against fire and explosion:

Static electricity and formation of sparks must be prevented. All equipment used when handling the product must be grounded.

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

Keep only in the original container. Keep unused container tightly closed. Keep the product away from children, food, beverage and animal feed.

7.3. Specific end use(s)

See section 1.2

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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.

8.2. Exposure controls

Technical exposure controls: adequate ventilation

General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment. Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

Personal protection:

a) Respiratory protection – respirator with an ABEK filter; at high concentration use respiratory protection with independent air supply.

b) Hand protection – recommended protective gloves made of: butyl rubber, neoprene, nitrile rubber, polyvinylchloride, Material of gloves must be resistant to the product. As the product is a mixture of several substances, the resistance of material of gloves can not be calculated in advance and therefore has to be checked before use. From the manufacturer's advice should be obtained information about the time of the penetration of substances and such time must be respected. The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. It is recommended to change gloves and replace them immediately if you notice any signs of wear, damage (rupture, perforation) or changes in appearance (color, flexibility, shape).

c) Eye protection – recommended safety glasses with side-shields

d) Skin protection – wear protective clothing, safety shoes

Environmental exposure controls:

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	liquid, opalescent with grey tone
Odour:	slight
Odour threshold:	no data
pH:	no data
Melting point/freezing point:	no data
Initial boiling point and boiling range:	no data
Flash point:	> 100°C
Evaporation rate:	no data
Flammability:	no data
Upper/lower flammability or explosive limits:	no data
Vapour pressure:	no data
Vapour density:	no data
Density:	1,02 – 1,03 g/cm ³
Solubility in water:	almost insoluble (< 0,01%), emulsible at conc. 0,1 %
Solubility in other solvents:	no data
Partition coefficient: n-octanol/water:	no data
Auto-ignition temperature:	no data
Decomposition temperature:	no data
Viscosity:	no data
Explosive properties:	doesn't concern
Oxidising properties:	doesn't concern

9.2. Other information

no data

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Under the properly conditions of storage and handling - no reactivity

10.2. Chemical stability

Stable under normal conditions (see Section 7 – storage conditions)

10.3. Possibility of hazardous reactions

No

10.4 Conditions to avoid

High temperature, direct sunlight

10.5. Incompatible materials

No data

10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Acute toxicity:

Acute Oral Toxicity LD50: > 2000 mg/kg

Acute Dermal Toxicity LD50: > 2000 mg/kg

Acute Inhalation Toxicity LC50: no data

ATE value (estimated) after inhalation > 1 – 5 mg/dm³/4h (aerosol) – product classified as acute toxicity (inhaled) hazardous hazard category 4 acc. to Regulation (EC) No 1272/2008

Skin corrosion/irritation: product isn't classified as irritant

Serious eye damage/irritation: product is classified as irritant (hazard category 2)

Respiratory or skin sensitisation: No data available

Germ cell mutagenicity: No data available. Hazardous ingredients of the product aren't mentioned on the list of mutagenic substances

Carcinogenicity: No data available. Hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.

Reproductive toxicity: No data available. Hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances.

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration hazard: No data available

Potential health effects:

Skin – may cause skin irritation or sensitisation, may act harmful as adsorbed through skin

Eyes – may cause irritation and redness of the conjunctiva, tearing

Ingestion – may act harmful

Inhalation – may cause irritation of the respiratory tract and mucous membranes

Toxicological data for hazardous ingredient (Polyalkyleneoxide Modified Heptamethyltrisiloxane)

Acute oral toxicity LD50 (Rat): > 2000 mg/kg

Acute inhalation toxicity LC50 (Rat): 2 mg/l Exposure time: 4 h Aerosol.

Acute inhalation toxicity LC50 (Rat): > 11,78 mg/l Exposure time: 4 h 5% diluted aqueous suspension Aerosol.

Acute dermal toxicity LD50 (Rat): > 4000 mg/kg

Skin irritation (Rabbit) Exposure time: 4 h – Slightly irritating

Eye irritation (Rabbit) – Strongly irritating

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Acute Toxicity to fish (*Oncorhynchus mykiss*) LC50 (96 h): 4,89 mg/l

Acute Toxicity to aquatic invertebrates (*Daphnia magna*) EC50 (48h): 36,9 mg/l

Acute Toxicity to algae (*Pseudokirchneriella subcapitata*): EC50 (72h): > 100 mg/l

12.2. Persistence and degradability:

Siloxanes are removed from the water by sedimentation and binding to sewage sludge.

In soil, siloxanes are degraded.

12.3. Bioaccumulative potential:

No data

12.4. Mobility in soil:

No data

12.5. Results of PBT and vPvB assessment:

Product doesn't contain PBT or vPvB substances

12.6. Other adverse effects:

Product classified as toxic to the aquatic environment, may cause long-term adverse effects in the aquatic environment. Take care that the product has not penetrated into the soil, drinking water sources, water tanks etc.

Ecotoxicological data for hazardous ingredient (Polyalkyleneoxide Modified Heptamethyltrisiloxane)

Acute Toxicity to fish LC50 (Rainbow Trout): 4,5 mg/l Exposure time: 96 h Method: OECD-Guideline 203

NOEC (Rainbow Trout): 3,2 mg/l Exposure time: 96 h Method: OECD-Guideline 203

Acute Toxicity to aquatic invertebrates EC 50 (*Daphnia magna*): 24 mg/l Exposure time: 48 h Method: OECD-Guideline 202

NOEC (*Daphnia magna*): 5,6 mg/l Exposure time: 48 h Method: OECD-Guideline 202

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Dispose of waste in accordance with all Federal, State and Local regulations.

Waste of product can be incinerated when in compliance with local regulations.

Waste of product: communicate with the manufacturer of the product on the possibility of processing waste. If it's not possible, deliver it to utilization in plants permitted to waste collection, transport, waste recovery and disposal. Do not introduce waste of product into sewage.

Disposing of the packaging:

Treat them as a waste product. Dispose of as unused product.

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SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number:** doesn't concern
14.2. UN proper shipping name: doesn't concern
14.3. Transport hazard class: doesn't concern
14.4. Packing group: doesn't concern
14.5. Environmental hazards: no
14.6. Special precautions for user: see section 7.1
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: doesn't concern

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, Authorisation and Restriction of 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) 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)
- Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 618/2012 of 10 July 2012 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 487/2013 of 8 May 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 944/2013 of 2 October 2013 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EU) No 605/2014 of 5 June 2014 amending, for the purposes of introducing hazard and precautionary statements in the Croatian language and its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- 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 made for the product

SECTION 16. OTHER INFORMATION

Explanation of risk phrases and hazard category referring hazardous substance contained in product:

- Acute Tox. 4 (inh) – Acute Toxicity (inhalation) Hazard Category 4
- Eye Irrit. 2 – Serious eye damage/eye irritation Hazard Category 2
- Aquatic Chronic 2 – Hazardous to the aquatic environment, Chronic Hazard Category 2

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H319 Causes serious eye irritation
 H332 Harmful if inhaled
 H411 Toxic to aquatic life with long lasting effects

Explanation of abbreviations and acronyms used in the MSDS:

CAS – Chemical Abstracts Service

EINECS – Number assigned to a substance in the European Inventory of Existing Commercial Chemical Substances

PBT – persistence, bioaccumulation potential and toxicity

vPvB – very high durability and very bioaccumulative

LD50 – Lethal Dose, 50%

LC50 – Lethal Concentration, 50%

UN number – identification number of the material (the number of UN, UN number)

ADR – European Agreement concerning the international carriage of dangerous goods by road

MSDS 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 mixture was made according to content of hazardous components and toxicological and ecotoxicological data for product, according to the Regulation (EC) No 1272/2008.

Source of data: this MSDS was prepared based on MSDS of ingredients, data of product, our knowledge and experience according to actual legislation.

ESIS European Chemical Substances Information System

Toxicological and ecotoxicological data for product

Recommendation and restriction of use: Use according to label. Additional safety information available at producer.

Disclaimer: information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. End user is responsible for inappropriate use of information enclosed in MSDS or inappropriate use of product.

Distribution of MSDS: MSDS is delivered for demand of purchasing, who use product in professional services.

Upgrade from 13.08.2015 regarding section 1 – 16.