

SAFETY DATA SHEET

(according to Directive 2001/58/EC)

CAPA ® 6500 Polycaprolactone

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the substance or preparation

Product name : CAPA ® 6500 Polycaprolactone
Chemical name : 2-Oxepanone, homopolymer
Synonym(s) : epsilon-Caprolactone, homopolymer
Formula: : (C₆H₁₀O₂)_x
Molecular Weight : 50,000

1.2. Use of the substance/preparation

Recommended uses : - Footwear industry
- Film
- Pharmaceuticals
- Construction
- Automotive industry

1.3. Company/undertaking identification

Address : SOLVAY INTEROX LIMITED
BARONET WORKS - LOWER WALTON
GB- WA4 6HB WARRINGTON

Tel. : +441925651277

Fax : +441925655856

1.4. Emergency telephone

2. COMPOSITION/INFORMATION ON INGREDIENTS

2-Oxepanone, homopolymer

CAS Number : 24980-41-4
Concentration : > 99.00 %

3. HAZARDS IDENTIFICATION

- Substance non classified according to Directive 67/548/EEC.

4. FIRST-AID MEASURES

4.1. Inhalation

- Remove the subject from dusty environment and let him blow his nose.

4.2. Eyes contact

- Flush eyes with running water for several minutes, while keeping the eyelids wide open.



4.3. Skin contact

- In case of contact with molten polymer : cool rapidly with cold water without attempting to peel it from skin. Obtain medical treatment for burns.

4.4. Ingestion

If the subject is completely conscious:

- Negligible

If the subject is unconscious:

- Not applicable

5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media

- Powder
- Foam, AFFF.
- CO2
- Large quantities of water, water spray.

5.2. Unsuitable extinguishing media

- No restriction.

5.3. Special exposure hazards

- Combustible
- Formation of dangerous gas/vapours in case of decomposition (see section 10).
- Possible build-up of electrical charges, which could cause a fire by electrical discharges.

5.4. Protective measures in case of intervention

- Wear self contained breathing apparatus when in close proximity or in confined spaces.
- Fire fighters must wear fire resistant personnel protective equipment.

5.5. Other precautions

- As for any fire, ventilate and clean the rooms before re-entry.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

- Follow the protective measures given in section 8.
- Spilled material can be a slipping hazard.

6.2. Environmental precautions

- Prevent discharges into the environment (sewers, rivers, soils,...).

6.3. Methods for cleaning up

- Collect the product with suitable means avoiding dust formation.
- Place material into a closed and labelled container.
- For disposal methods, refer to section 13.

7. HANDLING AND STORAGE

7.1. Handling

- Use electrically conductive materials for piping circuits and equipment.
- Avoid heating the product above the decomposition temperature (see section 9).

7.2. Storage

- Keep in original packaging, closed.
- In a dry area.
- Keep away from ignition and heat sources.



7.3. Specific use(s)

- For any particular use, please contact the supplier.

7.4. Packaging

- Paper + PP

7.5. Other precautions

- Grounded equipment.
- No open flames or sparks, no smoking.
- Prevent electrostatic discharges.
- Avoid dust and formation of dust clouds.
- Follow the protective measures given in section 8.
- Clean up any spilled pellets as quickly as possible (see also section 16).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

2-Oxepanone, homopolymer

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Result: Negligible

8.2. Exposure controls

- Follow the protective measures given in section 7.
- Provide local ventilation suitable for the product decomposition risk (see section 10).

8.2.1. Occupational exposure controls

8.2.1.1. *Respiratory protection*

- In case of dust clouds, dust mask type P1.
- Use only respiratory protection that conforms to international/ national standards.

8.2.1.2. *Hand protection*

- Protective gloves for protection against hot material.

8.2.1.3. *Eye protection*

- Protective goggles/face shield, if appropriate.

8.2.1.4. *Skin protection*

- Loose-fitting and long sleeved coverall.

8.2.1.5. *Other precautions*

- Consult the industrial hygienist or the safety manager for the selection of personal protective equipment suitable for the working conditions.

8.2.2. Environmental exposure controls

- Respect local/federal and national regulations for aqueous emissions (see section 15).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance	:	granules/pellets
Color/Colour	:	white
Odor/Odour	:	odorless/odourless

9.2. Important health, safety and environmental information

pH	:	Not applicable
Boiling point	:	Not applicable



Flash point	: = 275 °C <i>Remark:</i> Decomposition products <i>Method:</i> open cup
Flammability	: No data
Explosive properties	: <i>Remark:</i> Dust explosion possible
Density	: <u>Specific gravity:</u> 1.1 <i>Temperature:</i> 60 °C
Solubility	: Insoluble in : Water : Soluble in : Aromatic solvents : Chlorinated hydrocarbons
Partition coefficient: n-octanol/water	: Not applicable
Viscosity	: 1,500,000 mPa.s <i>Temperature:</i> 100 °C

9.3. Other information

Freezing point	: ca. 35 °C
Melting point/range	: from 58 - 60 °C
Granulometry	: <u>Mean diameter:</u> ca. 3 mm
Decomposition temperature	: ca. 200 °C

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid

- Heating the product to its decomposition temperature (see section 9).

10.2. Materials to avoid

- Acids
- Alkalis

10.3. Hazardous decomposition products

- Carbon monoxide
- Particulates of carbon
- Caprolactone/monomer

11. TOXICOLOGICAL INFORMATION

11.1. Toxicological datas

Comments

- The product is biologically inert.



11.2. Health effects

Main effects

- Hazard due to contact with product at high temperature.

Inhalation

- Negligible

Eyes contact

- Mechanical irritation from the particulates generated by the product.

Skin contact

- Negligible

Ingestion

- Negligible

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Acute ecotoxicity

- Result: no data

12.2. Mobility

- Result: no data

12.3. Persistence and degradability

Abiotic degradation

- Result: no data

Biotic degradation

- Result: no data

12.4. Bioaccumulative potential

- Result: no data

12.5. Other adverse effects

- No data.

12.6. Comments

- Product is not significantly hazardous for the environment.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment

- Dispose in compliance with local/federal and national regulations.
- It is recommended to contact the producer for recycling/recovery.
- If not possible
- Send the product to an authorized industrial waste incinerator.
- Or
- Dispose of product at a landfill authorised for industrial waste.

13.2. Packaging treatment

- Containers that cannot be cleaned must be treated as waste.
- The empty and clean containers are to be reused in conformity with regulations.

14. TRANSPORT INFORMATION

- Not subject



15. REGULATORY INFORMATION

15.1. EC Labelling

- Not classified according to Directive 67/548/EEC.

16. OTHER INFORMATION

16.1. Reason for update

- Distribute new edition to clients

This MSDS is intended for only the selected countries to which it is applicable. For example, this MSDS is not intended for use nor distribution within North America. You should contact Solvay America company representative for the official North America MSDS.

The information given corresponds to the current state of our knowledge and experience of the product, and is not exhaustive. This applies to product which conforms to the specification, unless otherwise stated. In this case of combinations and mixtures one must make sure that no new dangers can arise. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and protection of human welfare and the environment.

