1 Identification of substance

· **Trade name:** Capa® 4801

· **Application of the substance / the preparation**
  Adhesives
  Construction
  Binder
  Chemical intermediate

· **Manufacturer/Supplier:**
  Perstorp UK Limited
  Baronet Road
  Warrington
  Cheshire WA4 6HA
  United Kingdom
  Tel. +44 (0) 1925 643500
  Fax. +44 (0) 1925 232207
  Web: www.perstorp.com
  E-mail: polyolinfo@perstorp.com

  Perstorp Polyols Inc
  600 Matzinger Road
  Toledo, Ohio 43612
  Tel. 419-729-5448,
  800-537-0280
  Fax. 419-729-3291

· **Information department:** Corporate EHSQ Perstorp Holding AB.

· **Emergency information:**
  (United States) - CHEMTREC 1-800-424-9300.
  (Int.) +46 8 337043 (Emergency Response Center, Sweden)

2 Composition/Data on components

· **Chemical components:**
<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>Description</th>
<th>%</th>
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</table>
  | 35484-93-6 | 2-Oxepanone, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol | 99%

3 Hazards identification

· **Classification system:**
  The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**

  Health = 0
  Fire = 1
  Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

  HEALTH 0
  FIRE 1
  REACTIVITY 0

· **Additional information:**
  Caution - substance not yet fully tested.
  Due to the structure of the substance and studies made on similar products we assume that the product is unclassified.
4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
  - Immediately wash with water and soap and rinse thoroughly.
  - After contact with the molten product, cool rapidly with cold water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:**
  - Water spray
  - Foam
  - Carbon dioxide
  - Fire-extinguishing powder
- **Special hazards caused by the material, its products of combustion or resulting gases:**
  - In case of fire, the following can be released:
    - Carbon monoxide (CO)
    - Monomer (2-Oxepanone, Hexan-6-Olide, CAS 502-44-3)
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

7 Handling and storage

- **Information for safe handling:**
  - Prevent formation of dust.
  - Ensure good ventilation/exhaustion at the workplace.
- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
  - **Further information about storage conditions:**
    - Use grounded equipment
    - Prevent electrostatic discharges
    - Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

- **Components with limit values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Personal protective equipment:**
  - **Breathing equipment:**
    - Use suitable respiratory protective device in case of insufficient ventilation.
    - Filter P1
- **Protection of hands:**
  - Protective gloves
Material of gloves
PVC gloves
Chloroprene rubber, CR
Butyl rubber, BR

Penetration time of glove material
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Safety glasses

9 Physical and chemical properties

General Information
- Form: Granulate
- Color: White
- Odor: Odorless

Change in condition
- Melting point/Melting range: 58-60°C (136-140°F)
- Boiling point/Boiling range: Undetermined.

Flash point: 275°C (527°F) (open cup)

Ignition temperature:
- Decomposition temperature: 200°C (392°F)
- Auto igniting: Product is not selfigniting.

Danger of explosion:
- Product does not present an explosion hazard.

Density at 60°C (140°F):
- 1.1 g/cm³

Solubility in / Miscibility with Water:
- Insoluble.

Segregation coefficient (n-octanol/water):
- Undetermined.

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:
To avoid thermal decomposition do not overheat.

Materials to be avoided:
- Avoid contact with acids.
- Avoid contact with bases.

Dangerous reactions:
Possible build-up of electrical discharges, which could cause a fire.

11 Toxicological information

Acute toxicity:

Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.

Sensitization:
- No sensitizing effects known.
Trade name: Capa® 4801

- Other information (about experimental toxicology):
  The studies regarding LD50 oral and irritation tests on eye and skin are made on a similar product.
- Additional toxicological information:
  The product is not subject to classification according to internally approved calculation methods for preparations:
  When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- Information about elimination (persistence and degradability):
- Other information: The product is readily biodegradable.
- Ecotoxic effects:
  - Remark: The product is not classified as dangerous to the environment.
- Other information: The studies regarding aquatic toxicity are made on a similar product.

13 Disposal considerations

- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- DOT regulations:
- Hazard class: -
- Land transport ADR/RID (cross-border):
  - ADR/RID class: -
- Maritime transport IMDG:
  - IMDG Class: -
- Air transport ICAO-TI and IATA-DGR:
  - ICAO/IATA Class: -

- Transport/Additional information: Not dangerous according to the above specifications.

15 Regulations

- Sara
  - Section 355 (extremely hazardous substances):
    None of the ingredient is listed.
  - Section 313 (Specific toxic chemical listings):
    None of the ingredients is listed.
  - TSCA (Toxic Substances Control Act):
    35484-93-6 2-Oxepanone, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol *
  - Proposition 65
    - Chemicals known to cause cancer:
      None of the ingredients is listed.
    - Chemicals known to cause reproductive toxicity for females:
      None of the ingredients is listed.
    - Chemicals known to cause reproductive toxicity for males:
      None of the ingredients is listed.
Trade name: **Capa® 4801**

- **Chemicals known to cause developmental toxicity:**
  
  None of the ingredients is listed.

- **Carcinogenicity categories**

  - **EPA (Environmental Protection Agency)**
    
    None of the ingredients is listed.

  - **IARC (International Agency for Research on Cancer)**
    
    None of the ingredients is listed.

  - **NTP (National Toxicology Program)**
    
    None of the ingredients is listed.

  - **TLV (Threshold Limit Value established by ACGIH)**
    
    None of the ingredients is listed.

  - **MAK (German Maximum Workplace Concentration)**
    
    None of the ingredients is listed.

  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    
    None of the ingredients is listed.

  - **OSHA-Ca (Occupational Safety & Health Administration)**
    
    None of the ingredients is listed.

  - **Canadian Domestic Substance List (DSL)**
    
    None of the ingredients is listed.

  - **Chinese Chemical Inventory of Existing Chemical Substances**
    
    All ingredients are listed.

  - **Japan Existing and New chemical Substance List (ENCS)**
    
    7-786

- **Product related hazard informations:**

  The substance is not subject to classification according to the sources of literature known to us. Observe the general safety regulations when handling chemicals. Caution - substance not yet fully tested.

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**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Corporate EHSQ Perstorp Holding AB