## 1 Identification of the substance/mixture and of the company/undertaking

- **Product name:** Capa™ 3031
- **Product status:**
- **Product identifier**
  2-Oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol
  Cas No.: 37625-56-2
  EC Number/NLP number: 500-099-5
- **Registration number** 01-2119486824-25-0000
- **Relevant identified uses of the substance or mixture and uses advised against**
  - **Industrial use**
    - Industrial manufacturing
    - Manufacture of substances
    - Distribution and storage
    - Formulations
    - Use:
      - in adhesives
      - in cast elastomers
      - in coatings
    - Manufacture:
      - of resins
      - of polymers
  - **Professional use**
    - Use:
      - in adhesives
      - in cast elastomers
      - in coatings
      - in laboratories
  - **Consumer use**
    - Use:
      - in adhesives
      - in cast elastomers
      - in coatings
  - **Uses advised against** Not identified.
  - **Application of the substance / the preparation**
    - Polyurethane
    - Paints
    - Construction
    - Automotive industry
    - Adhesives
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Perstorp UK Ltd
    Baronet Road
    Warrington
    Cheshire WA4 6HA
    United Kingdom
    Tel. +44 (0) 1925 643500
    Fax. +44 (0) 1925 232207
    www.perstorp.com
  - **Further information obtainable from:** productinfo@perstorp.com
  - **Emergency telephone number:** (Int.) +46 8 337043 (Emergency Response Center, Sweden)

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
  The substance is not classified according to the CLP regulation.

(Contd. on page 2)
31.05.2011 Revision: 31.05.2011 Version: 1

Product name: Capa™ 3031

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  The substance is not classified as hazardous to health or the environment according to the
  substance directive.

· Label elements
  · Labelling according to Regulation (EC) No 1272/2008
    · Hazard pictograms Not applicable
    · Signal word Not applicable
    · Hazard statements Not applicable
    · Precautionary statements Not applicable
    · Hazard description: No special hazards are associated with this product.
  · Other hazards
    · Results of PBT and vPvB assessment
      · PBT: No.
      · vPvB: No.

3 Composition/information on ingredients

· Chemical characterization: Substances Yes.

<table>
<thead>
<tr>
<th>Chemical components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 37625-56-2</td>
</tr>
<tr>
<td>NLP: 500-099-5</td>
</tr>
<tr>
<td>Reg.nr.: 01-2119486824-25-0000</td>
</tr>
</tbody>
</table>

| 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol | >99% |

· Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· Description of first aid measures
  · After inhalation: First aid measures not needed.
  · After skin contact:
    First aid measures not required, but wash exposed skin with soap and water for hygienic reasons.
  · After eye contact: Rinse opened eye under running water.
  · After swallowing:
    If a large quantity has been ingested or you feel unwell, get medical advice/attention.

5 Firefighting measures

· Extinguishing media
  · Suitable extinguishing agents:
    Water spray
    Foam
    Carbon dioxide
    Fire-extinguishing powder

  · For safety reasons unsuitable extinguishing agents: Water with full jet

  · Special hazards arising from the substance or mixture
    In case of fire, the following can be released:
    Carbon monoxide (CO)
    Monomer (2-Oxepanone, Hexan-6-Olide, CAS 502-44-3)

· Advice for firefighters
  · Protective equipment:
    Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus
    (SCBA) with a full face-piece operated in positive pressure mode.
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear safety glasses, gloves, protective clothing and rubber boots for hygienic reasons.
- Environmental precautions:
  Prevent from spreading (e.g. by damming-in or oil barriers).
  Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
  Small spill:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
  Large spill:
  Pump up the product into a spare container suitably labelled.
  Clean the affected area carefully; suitable cleaners are:
  water
- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- Precautions for safe handling
  Wear personal protective equipment according to section 8 if risk of exposure.
  Keep away from heat and direct sunlight.
- Information about fire - and explosion protection: Not applicable
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
  - Further information about storage conditions:
    Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

- Control parameters Keep personal exposure levels below Derived No Effect Level (DNEL).
- Ingredients with limit values that require monitoring at the workplace: Not required.

<table>
<thead>
<tr>
<th>DNELs</th>
<th>37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>DNEL acute systemic: 1 mg/kg bw/d (general public)</td>
</tr>
<tr>
<td></td>
<td>DNEL long term syst: 0.5 mg/kg bw/d (general public)</td>
</tr>
<tr>
<td>Dermal</td>
<td>DNEL acute systemic: 2 mg/kg bw/d (workers)</td>
</tr>
<tr>
<td></td>
<td>DNEL long term syst: 1 mg/kg bw/d (general public)</td>
</tr>
<tr>
<td></td>
<td>DNEL long term syst: 0.5 mg/kg bw/d (general public)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>DNEL acute systemic: 7 mg/m³ (workers)</td>
</tr>
<tr>
<td></td>
<td>DNEL long term syst: 1.75 mg/m³ (general public)</td>
</tr>
<tr>
<td></td>
<td>3.5 mg/m³ (workers)</td>
</tr>
<tr>
<td></td>
<td>0.9 mg/m³ (general public)</td>
</tr>
</tbody>
</table>

- PNECs

<table>
<thead>
<tr>
<th>37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC STP</td>
</tr>
<tr>
<td>PNEC freshwater</td>
</tr>
</tbody>
</table>
Product name: **Capa™ 3031**

<table>
<thead>
<tr>
<th>PNEC intermittent</th>
<th>1.02 mg/l (-)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNEC marine water</td>
<td>0.0102 mg/l (-)</td>
</tr>
</tbody>
</table>

**Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:** Protective gloves not really required. However, we recommend using protective gloves made of rubber.

**Material of gloves**
- PVC gloves
- Chloroprene rubber, CR
- Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Eye protection:** If handled where risk of splashes may occur, use safety goggles.
- **Body protection:** Normal work clothes for the chemical industry (long legs and sleeves).

**Limitation and supervision of exposure into the environment** Not applicable

**Risk management measures**
Exposure scenarios are not available since not classified as dangerous for health or environment according to CLP Regulation (EC) No 1272/2008.

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Liquid
  - Colour: Colourless
  - Odour: Odourless
- **Odour threshold:** Not applicable

- **Change in condition**
  - Melting point/Melting range: Not applicable.
  - Glass transition
  - Boiling point/Boiling range: >200 °C (ASTM E 537-02)

- **Flash point:** 204 °C (closed cup, ASTM D3278-96)

- **Flammability (solid, gaseous):** Not applicable

- **Ignition temperature:** 365 °C (ASTM E 659-78)

- **Danger of explosion:** Not explosive.

- **Explosion limits:** Not applicable
- **Oxidizing properties**
  - Not oxidizing.

- **Vapour pressure at 25 °C:** <1 Pa

- **Density at 20 °C:** 1.1 g/cm³ (ISO 758-1978)

- **Solubility in / Miscibility with water:** Soluble.

- **Partition coefficient (n-octanol/water):** 1.2 log POW (OECD 117)

- **Viscosity:**
  - Dynamic at 40 °C: 669 mPas (ISO 3219)
10 Stability and reactivity

- Reactivity
  There exists no specific test data for this product. For further information, see the subsequent subsections of this chapter.
- Chemical stability
  The product is stable at normal conditions.
- Possibility of hazardous reactions
  No dangerous reactions known.
- Conditions to avoid
  Heat
- Incompatible materials:
  Avoid contact with acids.
  Avoid contact with bases.
- Hazardous decomposition products:
  Possible decomposition and release of monomer at temperatures above 200°C.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values:
    | 37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol |
    | Oral | LD50 | >2000 mg/kg (rat) (EU Method B.1) |
    | Dermal | LD50 | 6400* mg/kg (rat) (OECD 402) |
  - Remark:
    No acute toxicity data exists on inhalation. However the inhalatory route is unlikely since the product is a non-volatile liquid.
- Primary irritant effect:
  - on the skin:
    No irritating effect. (OECD 404)
  - on the eye:
    No irritating effect. (OECD 405)
- Sensitisation
  No skin sensitisation. (OECD 429)
- Repeated dose toxicity
  | 37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol |
  | Oral | NOAEL/90d | 100* mg/kg bw/d (rat) (OECD 408) |
- Carcinogenicity:
  Not considered to be carcinogen.
- Mutagenicity:
  The product is not considered to be mutagenic.
  Not mutagenic in Bacterial Reverse Mutation Assay. (OECD 471)
  The substance is not clastogenic. Mammalian Chromosomal Aberration Test (OECD 473).*
  Not mutagenic in mammalian cells. (OECD 476)*
- Reproductive toxicity:
  No impairment of fertility has been observed.
  No embryotoxic or teratogenic effects have been observed.
Product name: Capa™ 3031

12 Ecological information

Toxicity

Aquatic toxicity:
Low toxicity to aquatic organisms.

37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol
- EC50/48h 204* mg/l (Daphnia magna) (OECD 202)
- EC50/72h 2616* mg/l (Desmodesmus subspicatus) (OECD 201)
- IC50 670 mg/l (bacteria)
- LC50/96h 150 mg/l (Danio rerio) (OECD 203)
- NOEC 40 mg/l (Danio rerio) (OECD 203)

Persistence and degradability
The product is readily biodegradable.

37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol
- BOD28 77 % (-) (OECD 301B)

Mobility in soil
The substance is not expected to adsorb to a high degree to suspended solids and sediment based upon the log Pow.

Behaviour in sewage processing plants:

37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol
- NOEC(16h) 670 mg/l (activated sludge)

Additional ecological information:

- General notes:
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
  - PBT: No.
  - vPvB: No.
  - Remark: * read-across from supporting substance (structural analogue)

13 Disposal considerations

Waste treatment methods
The product is not classified as hazardous waste.
Incinerate at a licensed installation.

European waste catalogue
07 01 99 | wastes not otherwise specified

Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.
Product name: **Capa™ 3031**

### 14 Transport information

- **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 goods according to the above specifications.

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Not applicable

- **National regulations:** Not applicable

- **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### 16 Other information

This Safety Data Sheet is not a Product Specification. It is based on our present knowledge and experience and it is intended to serve as a guide for safe handling of the product regarding to health and environmental aspects.

- **Department issuing SDS:** Corporate EHSQ Perstorp Holding AB
- **Data compared to the previous version altered.**