Material Safety Data Sheet  
acc. to ISO/DIS 11014  
Version: 1  
Reviewed on 06/22/2011

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

- **Product name:** Capa™ 3050
- **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
- **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 Limited
    - Baronet Road
    - Warrington
    - Cheshire WA4 6HA
    - United Kingdom
    - Tel. +44 (0) 1925 643500
    - Fax. +44 (0) 1925 232207
    - Web: www.perstorp.com
  - Perstorp Polyols Inc
    - 600 Matzinger Road
    - Toledo, Ohio 43612
    - Tel. 419-729-5448,
      - 800-537-0280
    - Fax. 419-729-3291
  - **Information department:** productinfo@perstorp.com
- **Emergency telephone number:**
  - (United States) - CHEMTREC 1-800-424-9300.
  - (Int.) +46 8 337043 (Emergency Response Center, Sweden)

(Contd. on page 2)
Material Safety Data Sheet
acc. to ISO/DIS 11014
06/22/2011 Reviewed on 06/22/2011

Version: 1

Product name: Capa™ 3050

(Contd. of page 1)

2 Composition/information on ingredients

- Chemical characterization: Substances Yes.
- Chemical components:

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>37625-56-2</td>
<td>2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol</td>
<td>≥99%</td>
</tr>
</tbody>
</table>

3 Hazards identification

- Hazard description: No special hazards are associated with this product.
- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 1
    - Fire = 1
    - Reactivity = 0
  - HMIS-ratings (scale 0 - 4)
    - HEALTH 1 Health = 1
    - FIRE 1 Fire = 1
    - REACTIVITY 0 Reactivity = 0

4 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 for several minutes 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)
- 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.
- Additional information The product is combustible

(Contd. on page 3)
**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 protection against explosions and fires:** Not applicable
- **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**

- **Components with limit values that require monitoring at the workplace:** Not required.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** 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
9 Physical and chemical properties

- **General Information**
  - **Appearance:** Liquid
  - **Color:** Colorless
  - **Odor:** Odorless
  - **Odour threshold:** Not applicable
- **Change in condition**
  - **Melting point/Melting range:** Not applicable.
  - **Boiling point/Boiling range:** >200 °C (>392 °F) (ASTM E 537-02)
- **Flash point:** 218 °C (424 °F) (closed cup)
- **Flammability (solid, gaseous):** Not applicable
- **Ignition temperature:** 385 °C (725 °F) (ASTM E 659-78)
- **Danger of explosion:** Not explosive.
- **Explosion limits:** Not applicable
  - **Oxidizing properties:** Not oxidizing.
- **Vapor pressure at 25 °C (77 °F):** <1 Pa
- **Density at 20 °C (68 °F):** 1.1 g/cm³ (9.18 lbs/gal) (ISO 758-1978)
- **Solubility in / Miscibility with Water:** Soluble.
- **Segregation coefficient (n-octanol/water):** 2.4 log POW (OECD 117)
- **Viscosity:**
  - **Dynamic at 40 °C (104 °F):** 509 mPas (ISO 3219)
  - **Organic solvents:** 0.0 %

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

- **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)
Product name: **Capa™ 3050**

- **Primary irritant effect:**
  - on the skin:
    No irritant effect.
    (OECD 404)
  - on the eye:
    No irritating effect.
    (OECD 405)
- **Sensitization** No skin sensitization. (OECD 429)
- **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.

37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol

<table>
<thead>
<tr>
<th>Oral dose</th>
<th>NOAEL Development</th>
<th>250* mg/kg bw/day (rat) (OECD 414)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOAEL Fertility</td>
<td>800* mg/kg bw/day (rat) (OECD 422)</td>
<td></td>
</tr>
</tbody>
</table>

- **Remark:** * read-across from supporting substance (structural analogue)

### 12 Ecological information

- **Aquatic toxicity:**
  Low toxicity to aquatic organisms.

37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol

<table>
<thead>
<tr>
<th>EC50/48h</th>
<th>204* mg/l (Daphnia magna) (OECD 202)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50/72h</td>
<td>2616* mg/l (Desmodesmus subspicatus) (OECD 201)</td>
</tr>
<tr>
<td>IC50</td>
<td>670 mg/l (bacteria)</td>
</tr>
<tr>
<td>LC50/96h</td>
<td>150 mg/l (Danio rerio) (OECD 203)</td>
</tr>
<tr>
<td>NOEC</td>
<td>40 mg/l (Danio rerio) (OECD 203)</td>
</tr>
</tbody>
</table>

- **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) |

- **Behavior in environmental systems:**
  - **Bioaccumulative potential**
    Not bioaccumulable.

37625-56-2 2-oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol

| log Pow | 2.4 (-) (OECD 117) |

- **Ecotoxicological effects:**
  - **Behavior in sewage processing plants:**
    - NOEC(16h) | 670 mg/l (activated sludge) |

- **Remark:** * read-across from supporting substance (structural analogue)

### 13 Disposal considerations

- **Waste treatment methods**
  The product is not classified as hazardous waste.

(Contd. on page 6)
Product name: Capa™ 3050

- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agent: Water, if necessary with cleansing agents.

### 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 Regulatory information

- Sara
  - Section 355 (extremely hazardous substances):
    Substance is not listed.
  - Section 313 (Specific toxic chemical listings):
    Substance is not listed.
- TSCA (Toxic Substances Control Act):
  Substance is listed.
- Proposition 65
  - Chemicals known to cause cancer:
    Substance is not listed.
  - Chemicals known to cause reproductive toxicity for females:
    Substance is not listed.
  - Chemicals known to cause reproductive toxicity for males:
    Substance is not listed.
  - Chemicals known to cause developmental toxicity:
    Substance is not listed.
- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    Substance is not listed.
  - IARC (International Agency for Research on Cancer)
    Substance is not listed.
  - NTP (National Toxicology Program)
    Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH)
  Substance is not listed.
- MAK (German Maximum Workplace Concentration)
  Substance is not listed.
Material Safety Data Sheet
acc. to ISO/DIS 11014

06/22/2011 Reviewed on 06/22/2011
Version: 1

Product name: Capa™ 3050

- NIOSH-Ca (National Institute for Occupational Safety and Health)
  Substance is not listed.

- OSHA-Ca (Occupational Safety & Health Administration)
  Substance is not listed.

- Canadian substance listings:
  - Canadian Domestic Substance List (DSL)
    Substance is listed.
  - Philippines Inventory of Chemicals and Chemical Substances
    Substance is listed.
  - Chinese Chemical Inventory of Existing Chemical Substances
    Substance is listed.
  - Australian Inventory of Chemical Substances
    Substance is listed.
  - Japan Existing and New chemical Substance List (ENCS)
    Substance is listed.
  - Korea Existing Chemical Inventory
    Substance is listed.

- National regulations: Not applicable

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
- * Data compared to the previous version altered.