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

- **Product name:** Capa™ 2100
- **Product identifier**
  - 2-oxepanone, polymer with 2,2-dimethyl-1,3-propanediol
  - Cas No.: 69089-45-8
  - EC No: polymer
- **Application of the substance / the preparation**
  - Manufacture of polyurethane
  - Adhesives
  - Binder
  - Automotive industry

- **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
    - www.perstorp.com
  - **Information department:** productinfo@perstorp.com
  - **Emergency telephone number:**
    - (United States) - CHEMTREC 1-800-424-9300.
    - (Int.) +46 8 337043 (Emergency Response Center, Sweden)

2 Composition/information on ingredients

- **Chemical characterization:** Substances Yes.
- **Chemical components:**
  - 69089-45-8 2-oxepanone, polymer with 2,2-dimethyl-1,3-propanediol ≥ 99%

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

(Contd. on page 2)
4 First aid measures

· **After inhalation:** First aid measures not required, but get fresh air for personal comfort.
· **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:** Rinse mouth with water.

If a large quantity has been ingested or you feel unwell, get medical advice/attention.

5 Firefighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
  - Water
  - 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.

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:** Do not allow product to reach sewage system or any water course.
· **Methods and material for containment and cleaning up:**
  Pick up mechanically.
  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.
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.
· Specific end use(s) No further relevant information available.

8 Exposure controls/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.
· Additional information:
  · OSHA-Ca (Occupational Safety & Health Administration)
    Substance is not listed.
  · TLV (Threshold Limit Value established by ACGIH)
    Substance is not listed.
  · NIOSH-Ca (National Institute for Occupational Safety and Health)
    Substance is not listed.
· 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.
  · 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

· Body protection: Normal work clothes for the chemical industry (long legs and sleeves).
9 Physical and chemical properties

· General Information
  · Appearance: Solid (wax)
  · Color: White
  · Odor: Odorless

· pH-value: Neutral

· Change in condition
  · Melting point/Melting range: 30 - 40 °C (86 - 104 °F)
  · Boiling point/Boiling range: Not determined.

· Flash point: 275 °C (527 °F) (open cup)

· Flammability (solid, gaseous): Not determined.

· Ignition temperature: ~200 °C (~392 °F)

· Danger of explosion: Not explosive.

· Explosion limits: Not applicable

· Oxidizing properties: Not oxidizing.

· Vapor pressure: Not determined.

· Density at 40 °C (104 °F): 1.05 g/cm³ (8.762 lbs/gal)

· Solubility in / Miscibility with Water: Insoluble.

· Segregation coefficient (n-octanol/water): Not determined.

· Viscosity:
  · Dynamic at 60 °C (140 °F): 150 mPas

· Other information: No further relevant information available.

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.

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

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid Heat

· Incompatible materials:
  Avoid contact with acids.
  Avoid contact with bases.
11 Toxicological information

- Acute toxicity:
  - LD/LC50 values: No information available.
- Primary irritant effect:
  - on the skin: No information available.
  - on the eye: No information available.
- Additional toxicological information:
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer)
      Substance is not listed.
    - NTP (National Toxicology Program)
      Substance is not listed.
    - Sensitization No sensitizing effects known.
    - Carcinogenicity: No information available.
    - Mutagenicity: No information available.
    - Reproductive toxicity: No information available.
  - Remark:
    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.

12 Ecological information

- Aquatic toxicity: No information available.
- Persistence and degradability No information available.
- Behavior in environmental systems:
  - Bioaccumulative potential: No information available.
- Remark:
  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.

13 Disposal considerations

- Waste treatment methods The product is not classified as hazardous waste.
- Uncleaned packagings:
  Contaminated packaging materials must be disposed of in the same manner as the product.
- Recommendation: Disposal must be made according to official regulations.
### 14 Transport information

- **UN Number**
  - DOT, ADR, ADN, IMDG, IATA -

- **Proper shipping name (Technical Name)**
  - DOT, ADR, ADN, IMDG, IATA -

- **Transport hazard class(es)**
  - DOT, ADR, ADN, IMDG, IATA -

- **Class**
  -DOT, ADR, ADN, IMDG, IATA -

- **Packing group**
  - DOT, ADR, IMDG, IATA -

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.

- **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.

- **Carcinogenic categories**
  - **EPA (Environmental Protection Agency)** Substance is not listed.

- **Inventory status:**
  - **Australian Inventory of Chemical Substances (AICS)** Substance is listed.
  - **Canadian Domestic Substance List (DSL)** Substance is not listed.
  - **Canadian Non Domestic Substance List (NDSL)** Substance is listed.
  - **Chinese Chemical Inventory of Existing Chemical Substances (CIECS)** Substance is listed.
  - **European EINECS/ELINCS Listing** Exempt, polymer Substance is not listed.
  - **Japan Existing and New chemical Substance List (ENCS)** Substance is listed.
  - **Korea Existing Chemical Inventory (KECI)** Substance is listed.
  - **New Zealand Inventory of Chemicals (NZIoC)** Substance is listed.
Product name: Capa™ 2100

- Philippines Inventory of Chemicals and Chemical Substances (PICCS)
  All ingredients are listed.
- TSCA listing
  Substance is listed.
- Other regulations, limitations and prohibitive regulations
- Proposition 65
  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.

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.