

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

- **Product identifier**

2-oxepanone, homopolymer

Cas No.: 24980-41-4

EC No: polymer

- **Application of the substance / the preparation**

Film

Pharmaceuticals

Footwear industry

Construction

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:**

24980-41-4	2-oxepanone, homopolymer	≥ 99%
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3 Hazards identification

- **Hazard description:** No special hazards are associated with this product.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**

1	1	Health = 1
		Fire = 1
		Reactivity = 0

(Contd. on page 2)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

01/22/2013

Version: 1

Reviewed on 01/22/2013

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = 1
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

· Other hazards

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:** 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 to enter sewers/ surface or ground water.
- **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.

(Contd. on page 3)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

01/22/2013

Version: 1

Reviewed on 01/22/2013

See Section 13 for disposal information.

(Contd. of page 2)

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.
Wear respiratory device with filter in case of insufficient ventilation.
Filter N95
 - **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:**

R Safety glasses

(Contd. on page 4)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

01/22/2013

Version: 1

Reviewed on 01/22/2013

(Contd. of page 3)

- **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:**

Form: Granulate

Color: White

- **Odor:** Odorless

- **Change in condition**

Melting point/Melting range: 58-60 °C (136-140 °F)

Boiling point/Boiling range: Not determined.

- **Flash point:** 275 °C (527 °F)

- **Flammability (solid, gaseous):** Not determined.

- **Ignition temperature:**

Decomposition temperature: 200 °C (392 °F)

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

- **Explosion limits:** Not applicable

- **Oxidizing properties** Not oxidizing.

- **Vapor pressure:** Not determined.

- **Density at 60 °C (140 °F):** 1.1 g/cm³ (9.18 lbs/gal)

- **Solubility in / Miscibility with**

Water: Insoluble.

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

- **Viscosity:**

Dynamic: Not applicable.

- **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.

(Contd. on page 5)

USA

Material Safety Data Sheet
acc. to ISO/DIS 11014

01/22/2013

Version: 1

Reviewed on 01/22/2013

(Contd. of page 4)

- **Hazardous decomposition products:**

Possible decomposition and release of monomer at temperatures above 200⁰ C (392°F).

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values:**

No information available.

The polymer is not bioavailable because of its molecular size.

- **Primary irritant effect:**

- **on the skin:** No information available.

- **on the eye:** No information available.

- **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.

The polymer is not bioavailable because of its molecular size.

- **Persistence and degradability** No information available.

- **Other information:** The product is readily biodegradable.

- **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.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN Number**

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

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(Contd. on page 6)

USA

Material Safety Data Sheet
acc. to ISO/DIS 11014

01/22/2013

Version: 1

Reviewed on 01/22/2013

(Contd. of page 5)

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|--|--|
| · Proper shipping name (Technical Name)
· DOT, ADR, ADN, IMDG, IATA | - |
| · Transport hazard class(es)
· DOT, ADR, ADN, IMDG, IATA
· Class | - |
| · 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.

· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

· **Inventory status:**

· **Australian Inventory of Chemical Substances (AICS)**

Substance is listed.

· **Canadian Domestic Substance List (DSL)**

Substance is listed.

· **Canadian Non Domestic Substance List (NDSL)**

Substance is not 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.

(Contd. on page 7)

USA

Material Safety Data Sheet
acc. to ISO/DIS 11014

01/22/2013

Version: 1

Reviewed on 01/22/2013

(Contd. of page 6)

- **New Zealand Inventory of Chemicals (NZIoC)**

Substance is listed.

- **Philippines Inventory of Chemicals and Chemical Substances (PICCS)**

Substance is listed.

- **TSCA listing**

Substance is listed.

- **Other regulations, limitations and prohibitive regulations**

- **State of California, 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.

- **Additional information:**

TSCA IUR/CDR, Chemicals Exempt from Update Reporting [flagged XU on TSCA Inventory] (July, 2012)

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.**

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