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SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

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SECTION 1. Identification of the substance

Product identifiers

Product name: Polycaprolactone

CAS-No.: 24980-41-4

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company: CHEMLYTE SOLUTIONS CO., LTD

Address: A1-3-830, XiXi Center, No. 588, Wenyi West Road, Hangzhou 310000, Zhejiang, China

Telephone: +86-(571)-85061365

Fax : +86-(571)-85060165

Emergency telephone number

Emergency Phone # : +1-703-527-3887

SECTION 2. Composition/Information on

2.1. Risk category

Follow the global chemical agreed classification and labelling system (GHS), which is not classified

2.2. Label elements

Symbols/Pictograms

Not applicable

Signal word

Not applicable

Hazard statements

Not applicable

Precautionary Statements

Not applicable

Supplementary hazardinformation

Not applicable

Unknown Actue Toxicity

Not applicable

SECTION 3. Composition/information on ingredients

3.1 Substances

Chemical Name	CAS No	Residual monomer-%
Polycaprolactone	24980-41-4	≤2

SECTION 4. First aidmeasures

4.1. Description of first aid measures

Inhalation First aid measures not required, but get fresh air for personalcomfort. Skin contact First aid measures not required, but wash exposed skin with soap and water forhygienic reasons. Eye contact Rinse cautiously with tempered water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Ingestion Clean mouth with water and drink afterwards plenty of water. If a large quantity have been ingested or if you feel unwell, get medicaladvice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Eye contact: Causes severe irritation with flood of tears and pain and strong redness and swelling of the eye.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

All types of extinguishing media are suitable. Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapours; Carbon monoxide (CO), Carbon dioxide (CO2). Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Additional information

Cool containers with flooding quantities of water until well after fire is out.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear tightly sealed goggles. Wear gloves, protective clothing and rubber boots for hygienic reasons. Keep unprotected persons away.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Small spill: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Large spill: Pump up the product into a spare container suitably labelled. Methods for cleaning up Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

6.4. Reference to other sections

See Section 7,8,13 for more information.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Design work place, in such a way that splashes from the product is prevented. Wear tightly sealed goggles and protective gloves.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Keep away from heat. The product is: Hygroscopic.

7.3. Specific end use(s)

For details, see the separate exposure scenario(s).

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Keep personal exposure levels below Derived No Effect Level (DNEL) and national exposure limit values (if existing).

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection: Tight sealing safety goggles.
Hand Protection: Wear protective gloves. PPE - Glove material: Chloroprene rubber, CR, Butylrubber, Polyvinyl chloride (PVC). Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
Skin and body protection: Body protection must be chosen depending on activity and possible exposure,e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes).
Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limitsare exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls

Further information concerning special risk management measures: see annex of this (exposure scenarios).

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: White to off-white powder
Residual monomer: <2%
Solvent residue (ppm): <1000
Heavy metal content (in Pb) (ppm): ⩽10
Catalyst (Sn) residue (ppm): ⩽150
Odour threshold: No data available
Evaporation rate: Not determined
Flammability (solid, gas): Not applicable
Explosive limits
Upper explosive limits: No information available
Lower explosive limits: No information available
Vapour density: No information available
Relative density: No information available
Solubility(ies): No information available
Autoignition temperature: No information available
Decomposition temperature: No information available
Kinematic viscosity: No information available
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.
Bulk density: Not applicable
9.2. Other information
No information available.

SECTION 10. Stability and reactivity

10.1. Reactivity
There exists no specific test data for this product. For further information, see the subsequent subsections of this chapter.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
None under normal use conditions.
10.4. Conditions to avoid
Extremes of temperature and direct sunlight.
10.5. Avoid thermal decomposition
If it is used and stored in accordance with specifications, it will not be broken down
10.6.Substance that avoids contact:
Avoid contact with acids
Avoid contact with alkali
Hazardous decomposition products: decomposition and release of monomers may occur at temperatures higher than 200 degrees Celsius

SECTION 11. Toxicological information

11.1. Information on toxicological effects
Symptoms related to the physical, chemical and toxicological characteristics

See Section 4 for more information.

Numerical measures of toxicity

Acute toxicity

Acute oral toxicity: May be harmful if swallowed

LD/LC50 test

No information available

Skin corrosion/irritation

Non-irritating to the skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Not known sensitization effects were observed

Germ cell mutagenicity

No information available

Carcinogenicity

There is no indication for any carcinogenic potential since all in vitro and in vivo mutagenicity studies are negative.

Reproductive toxicity

Is not considered hazardous to the reproduction. Aspiration hazard

SECTION 12: Ecological information

No information available.

12.1. Toxicity

No information available

12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

The product is classified as hazardous waste and must be disposed of as such. Incinerate at a licensed installation.

Contaminated packaging

Thoroughly emptied and clean packaging may be recycled. Dispose of in accordance with federal, state and local regulations.

SECTION 14: Transport information

DOTRoad transport: Not regulated

RIDRail transport: Not regulated

IMDGSea transport: Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and The IBC Code: NO informationavailable

IATA Air transport: Not regulated

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

Not applicable.

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Further information