

Version 1.0

Polycaprolactone: 6-Caprolactone polymer

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

##### 1. Product Identifiers

**Product name :** Polycaprolactone  
**CAS No :** 24980-41-4  
**Synonyms :** 6-Caprolactone polymer

##### 2. Recommended Use

Laboratory chemicals, Manufacture of substances

##### 3. Uses advised against

Food, drug, pesticide or biocidal product use.

##### 4. Details of the supplier of the safety data sheet

**Company :** Nomisma Healthcare Private Limited  
J-63, B.I.D.C Estate, Opp. Jyoti Switch Gear Pvt. Ltd.,  
Gorwa, Vadodara, Gujarat - 390 0016, India  
**Phone :** (+91) 97731 34699  
**Email :** info@nomismahealthcare.com

##### 5. Emergency telephone number

**Emergency phone :** (+91) 97731 34699,  
(+91) 97731 34279

#### SECTION 2: Hazards identification

##### 1. Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

##### 2. Label Elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

##### 3. Precautionary Statements

###### a. Prevention

Wash face, hands and any exposed skin thoroughly after handling.  
Wear protective gloves / protective clothing / eye protection / face protection  
Avoid breathing dust / fume / gas / mist / vapors / spray  
Use only outdoors or in a well-ventilated area

###### b. Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor / physician if you feel unwell

**c. Skin**

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

**d. Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice / attention

**e. Storage**

Store in a well-ventilated place. Keep container tightly closed

Store locked up

**f. Disposal**

Dispose of contents/container to an approved waste disposal plant

**4. Other Hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

**1. Substances**

Synonyms : 6-Caprolactone polymer

Formula :  $(C_6H_{10}O_2)_n$

CAS-No. : 24980-41-4

No components need to be disclosed according to the applicable regulations.

### SECTION 4: First aid measures

**1. Description of first-aid measures**

**General advice**

Show this material safety data sheet to the doctor in attendance.

**If inhaled**

Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

**In case of skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.

**In case of eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**If swallowed**

### Material Safety Data Sheet

Revision Date: 06-01-2023

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

**2. Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**3. Indication of any immediate medical attention and special treatment needed**

No data available

#### SECTION 5: Fire-fighting measures

**1. Extinguishing media**

**Suitable extinguishing media**

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

**2. Special hazards arising from the substance or mixture**

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

**3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

**4. Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### SECTION 6: Accidental release measures

**1. Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, and consult an expert.

For personal protection see section 8.

**2. Environmental precautions**

Do not let product enter drains.

**3. Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly.

Clean up affected area. Avoid generation of dusts.

**4. Reference to other sections**

For disposal see section 13.

## SECTION 7: Handling and storage

### 1. Precautions for safe handling

#### Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is formed.

#### Hygiene measures

General industrial hygiene practice

For precautions see section 2.2.

### 2. Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed. Dry.

#### Storage stability

Recommended storage temperature 2 - 8 °C

Handle and store under inert gas. Hydrolyzes readily.

### 3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

### 1. Control parameters

Ingredients with workplace control parameters

### 2. Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### 3. Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### 4. Personal Protective Equipment

Appropriate technical controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after working day.

#### Personal Protection

##### Protection of eyes / face

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

##### Skin protection

Handle with gloves.

##### Body Protection

**Material Safety Data Sheet**
**Revision Date:** 06-01-2023

Full protective clothing against chemicals the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific place of work.

**Respiratory protection**

Required when dusts are generated

No protective equipment is needed under normal use conditions

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**SECTION 9: Physical and chemical properties**
**1. Information on basic physical and chemical properties**

<b>Appearance</b>	: White
<b>Odor</b>	: No information available
<b>Odor threshold</b>	: No information available
<b>pH</b>	: No information available
<b>Melting point / freezing point</b>	: 60 °C
<b>Initial boiling point / Range</b>	: No information available
<b>Flash point</b>	: > 110 °C
<b>Evaporation rate</b>	: Not applicable
<b>Flammability (solid, gas)</b>	: No information available
<b>Upper / lower flammability or explosive limits</b>	: No data available
<b>Vapor pressure</b>	: No information available
<b>Vapor density</b>	: Not applicable
<b>Specific Gravity</b>	: No information available
<b>Solubility</b>	: No information available
<b>Partition coefficient; n-octanol/water</b>	: No data available
<b>Autoignition temperature</b>	: Not applicable
<b>Decomposition temperature</b>	: No information available
<b>Viscosity</b>	: No data available

**2. Other information**

No data available

**SECTION 10: Stability and Reactivity**
**1. Reactivity Hazard**

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

### Material Safety Data Sheet

Revision Date: 06-01-2023

#### 2. Chemical Stability

Decomposes in contact with water. Moisture sensitive, the product is chemically stable under standard ambient conditions (room temperature)

#### 3. Conditions to avoid

No information available

#### 4. Possibility of hazardous reactions

No data available

#### 5. Incompatible materials

Acids, Bases, Strong oxidizing agents

#### 6. Hazardous decomposition products

In the event of fire: see section 5

#### 7. Hazardous Polymerization

Hazardous polymerization does not occur

#### 8. Hazardous Reactions

None under normal processing

### SECTION 11: Toxicological information

#### 1. Information on toxicological effects

##### Acute Toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

##### Skin corrosion/irritation

No data available

##### Serious eye damage/eye irritation

No data available

##### Respiratory or skin sensitization

No data available

##### Germ cell mutagenicity

No data available

##### Carcinogenicity

No data available

##### Reproductive toxicity

No data available

##### Specific target organ toxicity - single exposure

No data available

##### Specific target organ toxicity - repeated exposure

No data available

#### Registered Office:

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### Material Safety Data Sheet

Revision Date: 06-01-2023

#### Aspiration hazard

No data available

#### 2. Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

### SECTION 12: Ecological information

#### 1. Toxicity

No data available

#### 2. Persistence and degradability

No data available

#### 3. Bioaccumulative potential

No data available

#### 4. Mobility in soil

No data available

#### 5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 6. Endocrine disrupting properties

No data available

#### 7. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 1. Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**SECTION 14: Transport Information****1. UN number**

ADR/RID: -

IMDG: -

IATA: -

**2. UN proper shipping name**

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

ATA:

Not dangerous goods

**3. Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**4. Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**5. Environmental hazards**

ADR/RID: - No

IMDG Marine pollutant:- No

IATA: - No

**6. Special precautions for user****Further information**

Not classified as dangerous in the meaning of transport regulations.

**SECTION 15: Regulatory information****1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Other regulations**

Take note of Dir 94/33/EC on the protection of young people at work.

**2. Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**SECTION 16: Other information**

Full text of H-Statements referred to under sections 2 and 3.



**Material Safety Data Sheet****Revision Date: 06-01-2023****Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Material Safety Data Sheet

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