Nomisma Healthcare Private Limited
Polymers for Medical & Complex Drug Delivery Application
Phone: +91 97731 34699, +91 81606 87077
E-mail: info@nomismahealthcare.com
CIN: U24100GJ2020PTC115871

Revision Date: 06-01-2023

Version 1.0

PLCL: Poly(L-lactide-co-ɛcaprolactone)

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

1. **Product Identifiers**

Product name :	Poly(L-lactide-co-ɛcaprolactone)
CAS No :	65408-67-5
Synonyms :	PLLA-co-PCL

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**
   a. **Signal Word**
      Warning
   b. **Hazard Statement(s)**
      Causes skin irritation
      Causes serious eye irritation (H319)
      May cause respiratory irritation
   c. **Pictogram**

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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	: PLLA-co-PCL
Formula	: HO[C3H4O2]n[C6H10O2]mCH3
CAS-No.	: 65408-67-5

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.

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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
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**
   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
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.

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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.

   Storage class
   Storage class (TRGS 510): 11: Combustible Solids
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.

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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
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**

Appearance	: White
Odor	: No information available
Odor threshold	: No information available
pH	: No information available
Melting point/Range	: 162 - 169 °C
Initial boiling point / Range	: No information available
Flash point	: No information available
Evaporation rate	: Not applicable
Flammability (solid, gas)	: No information available
Upper / lower flammability or explosive limits	: No data available
Vapor pressure	: No information available
Vapor density	: Not applicable
Specific Gravity	: No information available
Solubility	: No information available
Partition coefficient; n-octanol/water	: No data available
Autoignition temperature	: Not applicable
Decomposition temperature	: No information available
Viscosity	: Not applicable
Molecular Formula	: HO[C3H4O2]n[C6H10O2]mCH3

2. **Other information**
No data available

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SECTION 10: Stability and Reactivity

1. **Reactivity Hazard**
   No information available
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

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Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

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.

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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.

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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

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