

SCIENTIFIC POLYMER PRODUCTS, INC.
MATERIAL SAFETY DATA SHEET

Effective Date: 02/10
Revision Date: N/A

Catalog Number: 1030
Page Number: 1

Scientific Polymer urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety; 2) Furnish this same information to each of its customers for the product; 3) Request its customers to notify their employees, customers, and other users of the product of this information.

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name Polycaprolactone

CAS Number: 24980-41-4

Molecular Formula: N/A

Manufacturer Information:

Scientific Polymer Products
6265 Dean Parkway
Ontario, NY 14519

Non-Emergency Phone Number:
Emergency Phone Number (24 hrs):
Website:

585/265-0413
1-800-255-3924 (CHEM TEL)
www.scientificpolymer.com

SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	CAS Number	%
Polycaprolactone	24980-41-4	>99

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview:

Under normal use conditions, this material is considered to present minimal human health and environmental hazards.

Signs and Symptoms of Potential Overexposure:

INHALATION: Dust particles may require cleaning of nasal passages. **EYES:** Mechanical irritation from particulates generated by product. **SKIN:** Decomposition gases may be irritating to the skin. **INGESTION:** Minimal hazard expected in normal industrial use.

SECTION 4. FIRST AID MEASURES

INHALATION:

Clear nasal passages of dust and particulates. If exposed to excessive levels of decomposition products, remove to fresh air and get medical attention if cough or other symptoms develop.

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EYE CONTACT:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms develop.

SKIN CONTACT:

Remove contaminated clothing. Wash skin with soap and water. Get medical attention if symptoms develop. Molten polymer can burn skin.

INGESTION: If subject is completely conscious, rinse mouth and administer fresh water.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point/Method: 527°F
Flammable Limits: UFL: N/A **Autoignition Temperature:** N/A
LFL: N/A

Extinguishing Media: Powder, foam, AFFF, CO₂, water, water spray

Specific Hazards:

Formation of dangerous gas/vapors in case of decomposition. Possible buildup of electrical charges which could cause a fire by electrical discharge.

Protective Measures in case of intervention:

Evacuate all non-essential personnel. Intervention only by capable personnel who are trained and aware of the hazards of the product. Wear self-contained breathing apparatus when in close proximity or in confined spaces.

Other Precautions:

If safe to do so, remove exposed containers, or cool with large quantities of water. As with any fire, clean and ventilate room before entry.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Precautions: Observe the protective measures given in Section 8. Spilled material may cause slipping hazard.

Cleanup Methods:

Solid: Collect the product with suitable means avoiding dust formation. Place material into a closed, labeled container compatible with the product. Place the container in a safe and isolated place.

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Molten: If possible dam large quantities of molten solid with sand or earth and allow to solidify. Place into a closed, labeled container compatible with the product. Place the container in a safe and isolated place. Clean the spill area with large quantities of water.

SECTION 7. HANDLING AND STORAGE

Handling:

Use electrically conductive materials for piping circuits and equipment. Avoid heating product above decomposition temperature.

Storage:

Keep in the original packaging, closed. Store in a dry area. Keep away from ignition and heat sources.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS:

Authorized limit Values:

PNOC (Particulates not otherwise classified)

OSHA PEL

15 mg/m³ – total dust

5 mg/m³ – respirable fraction

Personal Protective Equipment:

RESPIRATORY: Use appropriate respiratory protection in case of dust or dust formation. **SKIN:** Where contact is likely, wear chemical-resistant gloves (PVC). **EYES:** Wear safety glasses with side shields. Wear chemical splash goggles and face shield, if risk of splashing. **SKIN:** Where contact is likely, wear chemical-resistant gloves, a chemical suit and boots. Recommended materials are PVC, neoprene or rubber. Wear appropriate thermal protection when handling hot material. Wear chemical protective clothing in dusty areas.

Engineering Controls: Provide local ventilation suitable for the emission risk

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pellets	Odor:	Odorless
Approximate Mw:	55,000 [GPC]	Specific Gravity:	1.145 (23°C)
Melting Point:	60°C	Melt Flow Index:	9 g/10 min (80°C, 2.16Kg)
Tg:	-60°C	Decomposition Temperature:	200°C
Solubility in Water:	Insoluble		

SECTION 10. STABILITY AND REACTIVITY

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Stability: Stable under normal conditions of use
Conditions to Avoid: Moisture, excessive temperatures

Hazardous Polymerization: Will not occur
Incompatibilities: Acids, alkalis

Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide when involved in a fire. Particulates of carbon. Caprolactone monomer.

SECTION 11. TOXICOLOGICAL INFORMATION

No information available.

SECTION 12. ECOLOGICAL INFORMATION

Ingestion of pellets by wildlife and fish may cause satiation (fullness) or bowel constriction.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal:

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. SP2 HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION DESCRIBED IN SECTION 2.

SECTION 14. TRANSPORT INFORMATION

DOT INFORMATION:

Proper Shipping Name: Not regulated
Hazard Class: N/A
Packing Group: N/A
UN#: N/A

IATA INFORMATION:

Proper Shipping Name: Not regulated
Hazard Class: N/A
Packing Group: N/A

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UN#: N/A

SECTION 15. REGULATORY INFORMATION

TSCA Inventory 8(b): Yes
SARA Title III Sec. 302/303 Extremely Hazardous Substances (40 CFR 355): No
SARA Title III Sec. 311/312 (40 CFR 370): No
SARA Title III Sec. 313 Toxic Chemical Emissions Reporting (40 CFR 372): No

CERCLA Hazards Substances (40 CFR Part 302): Listed: NO Unlisted Substances: NO

Canadian DSL Registration: Yes, #11183
WHMIS Classification: Not a controlled product

SECTION: 16. OTHER INFORMATION

HMIS HAZARD RATING

HEALTH: 0
FLAMMABILITY: 1
REACTIVITY: 0

PERSONAL PROTECTION: B

FIRE:

Material that must be preheated before ignition can occur.

HEALTH:

Materials which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material.

REACTIVITY:

Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.

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