

# Material Safety Data Sheet

Issue Date: 7/14/2010

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## Section 1: Chemical Product and Company Identification

Cat#: 25090

Part Name: Polycaprolactone

Supplier: Polysciences, Inc.  
400 Valley Road  
Warrington, PA 18976  
Telephone #215-343-6484

## Section 2: Composition/ Information on Ingredients

Item#	Name	CAS#	% in product
1	2-Oxepanone, homopolymer	024980414	100

### OSHA (ACGIH) Exposure Limits

CAS#	IDLH	TWA		STEL		CEILING	
		ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
024980414	NE	NE	NE	NE	NE	NE	NE
OS		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE

## Section 3: Hazards Identification

Dust is an OSHA nuisance dust. PEL is 15 mg/cu m. total dust and 5 mg/cu.m. respirable fraction.

May cause skin, eye and respiratory tract irritation.

Powdered material may form explosive dust-air mixtures.

Toxicological properties are not known.

Hazard Ratings:

These ratings are Polysciences' Inc. own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
1	1	0

## Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.

If breathing is difficult, contact emergency personnel.

Remove to fresh air.

Separate eyelids with finger tips.

Wash skin with deluge of water for at least 15 minutes.

## Section 5: Fire Fighting Measures

Flash point, deg F.: 527F Method: no data

UEL: no data LEL: no data Autoignition temperature, deg. F.: no data

Flammability Classification: no data Flame Propagation Rate: no data

Hazardous Combustion Products: Oxides of carbon, caprolactone monomer

## Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

Prevent contact with combustible materials.

Remove ignition sources.

Sweep up solids.

Use appropriate personal protective equipment.

Ventilate the area.

## Section 7: Handling and Storage

Keep away from heat, sparks, and flame.

Store at room temp

Store in a dry area.

Store in a tightly closed container.

**Section 8: Exposure Controls/ Personal Protection**

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

- Use chemical splash goggles and face shield.
- Use latex or equivalent gloves.
- Use process enclosures, local exhaust ventilation, or other engineering controls.

**Section 9: Physical and Chemical Properties**

Formula:	(C6H10O2)x	vapor pressure:	no data
Formula Weight:	no data	vapor density:	no data
boiling point:	no data	Specific gravity:	1.10
melting point:	136-140F	ph:	no data
solubility:	Insoluble	appearance:	white odorless powder

**Section 10: Stability and Reactivity**

- Chemical Stabilit stable
- Conditions to Avoid: Moisture, excessive temps
- Incompatibility with other materials: Acids, alkalis
- Hazardous Decomposition Products: none
- Hazardous Polymerization: will not occur

**Section 11: Toxicological Information**

- Acute Data: no data
- Subchronic data: no data

**Section 12: Ecological Information**

no data

**Section 13: Disposal Considerations**

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
024980414	not listed	not listed

**Section 14: Transportation Data**

Refer to bill of lading or container label for DOT or other transportation hazard classification , if any.

**Section 15: Regulatory Information**

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
024980414	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#
024980414 not listed

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)  
This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
024980414	not listed	not listed	not listed

SARA Extremely Hazardous Substances and TPQs  
This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
024980414	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
024980414	Not listed	Not listed

**Section 16: Other Information**

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Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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END OF MSDS