

Polycaprolactam (MW 35,000) Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 09/28/2021 Supersedes: 10/27/2004 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	Substance		
Trade name	: Polycaprolactam (MW 35,000)		
Chemical name			
CAS-No.	: 25038-54-4		
Product code	: 18179		
Formula	: (C6H11NO)n		
.2. Recommended use and restrictions of	use		
Recommended use	: Use as laboratory reagent, Manufacture of	substances	
I.3. Supplier			
Supplier Polysciences 400 Valley Road Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214 info@polysciences.com - www.polysciences.com			
.4. Emergency telephone number			
Emergency number	24-hour emergency phone number ChemT	el 1-800-255-3924	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mix	ure		
GHS US classification			
Not classified			
GHS US labeling			
No labeling applicable 2.3. Other hazards which do not result in constraints of additional information available 2.4. Unknown acute toxicity (GHS US)	assification		
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Ao labeling applicable .3. Other hazards which do not result in c Io additional information available .4. .4. Unknown acute toxicity (GHS US) Iot applicable .4. SECTION 3: Composition/Information .1. Substances Name Polycaprolactam (MW 35,000) (Main constituent)	Dn ingredients Product identifie (CAS-No.) 25038-54		
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A labeling applicable 2.3. Other hazards which do not result in constitutional information available 2.4. Unknown acute toxicity (GHS US) A lot applicable 3.1. Substances 3.1. Substances Aname Polycaprolactam (MW 35,000) (Main constituent) Full text of hazard classes and H-statements : see 3.2. Mixtures A lot applicable 3.3. Description of first aid measures 3.4. Description of first aid measures 4.1. Description of first aid measures 5.2. First-aid measures after inhalation 5.3. First-aid measures after eye contact 5.3. First-aid measures after eye contact 5.4. Description of first eye contact 5.5. Point of the statement of th	Product identifie (CAS-No.) 25038-54 ection 16 : Remove person to fresh air and keep comf : Wash skin with plenty of water. : Rinse eyes with water as a precaution.	4 ≤ 100	
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4.3.	Immediate medical attention and spec	ial treatment, if necessary
Treat sy	mptomatically.	
SECTI	ON 5: Fire-fighting measures	
5.1.	Suitable (and unsuitable) extinguishin	g media
Suitabl	e extinguishing media	: Water spray. Dry powder. Foam.
5.2.	Specific hazards arising from the cher	nical
Hazaro fire	lous decomposition products in case of	: Toxic fumes may be released.
5.3.	Special protective equipment and prec	autions for fire-fighters
Protec	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTI	ON 6: Accidental release measu	res
6.1.	Personal precautions, protective equip	oment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerg	ency procedures	: Ventilate spillage area.
6.1.2.	For emergency responders	
Protec	tive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid re	lease to the environment.	
6.3.	Methods and material for containment	and cleaning up
Metho	ds for cleaning up	: Mechanically recover the product.
Other i	nformation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furth	er information refer to section 13.	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
	itions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
	e measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, including	
Storag	e conditions	: Store at room temp. Store in a well-ventilated place. Keep cool.
SECTI	ON 8: Exposure controls/persor	al protection
8.1.	Control parameters	
Poly	caprolactam (MW 35,000) (25038-54-4)	
No a	dditional information available	
8.2.	Appropriate engineering controls	
	priate engineering controls	: Ensure good ventilation of the work station.
Enviro	nmental exposure controls	: Avoid release to the environment.
8.3.	Individual protection measures/Persor	nal protective equipment
Hand	I protection:	
Prote	ective gloves	
Eye j	protection:	
Safet	y glasses	
Skin	and body protection:	

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Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1. Physical state : Solid Appearance : clear liquid pleasant. Color : No data available Odor • No data available Odor threshold No data available • pН : no data Melting point : no data Freezing point : Not applicable Boiling point no data : Flash point no data : Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Non flammable. : no data Vapor pressure : no data Relative vapor density at 20°C Relative density : No data available Molecular mass : (C6H11NO)n Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : Not applicable Decomposition temperature No data available : Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosion limits : Not applicable Explosive properties : No data available Oxidizing properties No data available • **Other information** 92 No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
No dang	perous reactions known under normal conditions of use.
10.4.	Conditions to avoid
None ur	ider recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
No addit	tional information available

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological informatio	n
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Polycaprolactam (MW 35,000) (25038-54-4)	
LC50 Inhalation - Rat	11 mg/m ³ mg/m3
ATE US (vapors)	0.011 mg/l/4h
ATE US (dust, mist)	0.011 mg/l/4h
Skin corrosion/irritation	: Not classified
	pH: no data
Serious eye damage/irritation	: Not classified
	pH: no data
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Polycaprolactam (MW 35,000) (25038-54-4)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
o	
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
No additional information available	

SECTI	ON 13: Disposal considerations	
13.1.	Disposal methods	
Waste	treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTI	ON 14: Transport information	

Department of Transportation (DOT)

In accordance with DOT

Not applicable

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Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information	
15.1. US Federal regulations	
Polycaprolactam (MW 35,000) (25038-54-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. International regulations

CANADA

Polycaprolactam (MW 35,000) (25038-54-4)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

National regulations

No additional information available

15.3. US State regulations

SECTION 16: Other information

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SDS US (GHS HazCom 2012)

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