

Catalog Number: 150175 Revision date: 25-Apr-2006

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION 1.

Catalog Number: 150175

Product name: POLY-D-LYSINE HYDROBROMIDE

Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components POLY-D-LYSINE HYDROBROMIDE 27964-99-4

CAS Number

Weight % 90 - 100% **ACGIH Exposure Limits:** None

OSHA Exposure Limits: None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause skin irritation and/or dermatitis

Principle routes of exposure: Skin Inhalation: May cause irritation of respiratory tract Ingestion: May be harmful if swallowed. Skin contact: May cause allergic skin reaction Eye contact: Avoid contact with eyes

Statements of hazard MAY CAUSE ALLERGIC SKIN REACTION.

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately. Skin contact: Rinse immediately with plenty of water and seek medical advice Ingestion: Do not induce vomiting without medical advice. Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Specific hazards: Unusual hazards: Special protective equipment for firefighters:

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Specific methods: Flash point: Autoignition temperature: NFPA rating: NFPA Health: NFPA Flammability: NFPA Reactivity: Use dry chemical, CO2, water spray or "alcohol" foam Burning produces irritant fumes. None known As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Water mist may be used to cool closed containers. Not determined Not determined

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Environmental precautions: Methods for cleaning up: Use personal protective equipment. Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

0°C DESICCATE

Handling:

Safe handling advice: Incompatible products: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation. PERSONAL PROTECTIVE EQUIPMENT Respiratory protection: Breathing apparatus only if aerosol or dust is formed. Hand protection: Pvc or other plastic material gloves Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect. Eye protection: Safety glasses with side-shields Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor Physical state: Formula: Molecular weight: Melting point/range: Boiling point/range: Catalog Number: 150175 White to off-white Solid (C6H13N2OBr)n 75,000-150,000 No data available at this time. No Data available at this time. Product name: POLY-D-LYSINE HYDROBROMIDE

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Density:
Vapor pressure:
Evaporation rate:
Vapor density:
Solubility (in water):
Flash point:
Autoignition temperature:

No data available No data available No data available No data available Soluble Not determined Not determined

10. STABILITY AND REACTIVITY

Stability: Polymerization: Hazardous decomposition products:

Materials to avoid: Conditions to avoid: Stable under recommended storage conditions. None under normal processing. Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides. Strong oxidising agents Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information Acute toxicity Components POLY-D-LYSINE HYDROBROMIDE	RTECS Number: Not Available	Selected LD50s and LC50s Not Determined	
Chronic toxicity:	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.		
Local effects:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.		
Specific effects:	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.		
Primary irritation:	No data is available on the product itself.		
Carcinogenic effects:	No data is available on the produc	ct itself.	
Mutagenic effects:	No data is available on the produc	ct itself.	
Reproductive toxicity:	No data is available on the product itself.		

12. ECOLOGICAL INFORMATION

Mobility: Bioaccumulation: Ecotoxicity effects: Aquatic toxicity:		No data available No data available No data available May cause long-term adverse effects in the aquatic environment.		
Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:	
POLY-D-LYSINE HYDROBROMIDE		Not Listed	Not Listed	
Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data	
POLY-D-LYSINE HYDROBROMIDE	Not Listed	Not Listed	Not Listed	
Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data	
POLY-D-LYSINE HYDROBROMIDE		Not Listed	Not Listed	

Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List Not Listed		California - Priority Toxic Pollutants Not Listed	
POLY-D-LYSINE HYDROBROMIDE	Not Listed				
Components POLY-D-LYSINE HYDROBROMIDE	California - Priority Toxic Pollutants Not Listed		California - Priority Toxic Pollutants Not Listed		
	13. DISPOSAL C	ONSIDERA	TIONS		
Waste from residues / unused products:Waste disposal must be in accordance with appropriate the second			ulations. This product, if posed of by treatment at a d by your local hazardous desidue from fires extinguished ardous.		
	14. TRANSPOR	T INFORMA	TION		
UN/Id No:		Not regulated			
DOT: Proper shipping name		Not Regulated	Ł		
Components POLY-D-LYSINE HYDROBROMIDE	U.S. DOT - Appendix A Table 1 - Reportable Quantities Not Listed				
TDG (Canada): WHMIS hazard class:		Non-controlled	d		
IMDG/IMO					
IMDG - Hazard Classif	ications	Not Applicable	9		
Components	U.S. DOT - Appendix B - Ma	rine Pollutan	ne Pollutan U.S. DOT - Appendix B - Severe		
POLY-D-LYSINE HYDROBROMIDE	Not Listed	Pollutants Not Listed			

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components POLY-D-LYSINE HYDROBROMIDE Inventory - United States TSCA - Sect. 8(b) Canada DSL Inventory List -

Not Listed Not Listed

U.S. regulations: Components POLY-D-LYSINE HYDROBROMIDE	California Proposition 6 - Not Listed	5 Massachusetts Right to Know List: Not Listed	New Jersey Right to Know List: Not Listed	Pennsylvania Right to Know List: Not Listed
Components	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants
POLY-D-LYSINE HYDROBROMIDE	Not Listed	Not Listed	Not Listed	Not Listed
Components	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:
POLY-D-LYSINE HYDROBROMIDE	Not Listed	Not Listed	None	None
SARA 313 Notification:	The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372. If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).			
State Notification:	The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.			
16. OTHER INFORMATION				

Prepared by: Health & Safety

MP Biomedicals, LLC

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