



Aumgene Biosciences Pvt. Ltd.
8201/5, Road no. 8, GIDC Sachin – 394230, Surat, India
Tel: +91-261-2399499, Fax: +91-261-2399409.
Email: info@aumgene.com, Web: www.aumgene.com

ENZYME MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Commercial Product Name: Dextrazyme L Plus
Chemical characterization: Enzyme preparation
Product Use: Aumgene's enzyme preparations are biocatalysts used in a variety of industrial processes and in certain consumer products.
Responsible Company: Aumgene Biosciences Pvt. Ltd.
8201/5 Road no. 8, GIDC Sachin-394230, Surat, India
Information Phone Number: +91-261-3255755

2. INFORMATION ON INGREDIENTS

Active component: Enzyme protein
Common name: Dextranase
CAS Number: 9025-70-1
Exposure Limit: Not established

3. HAZARDS IDENTIFICATION

Emergency Overview

Description: Liquid enzyme preparation
Odor: Slight fermentation odor

OSHA Hazards

No known OSHA hazards

HMIS Classification

Health Hazard: 0
Flammability: 0
Physical hazards: 0

NFPA Rating

Health Hazard: 0
Fire: 0
Reactivity Hazard: 0

Liquid enzyme preparations are dust free preparations. However, inappropriate handling may cause formation of dust or aerosols. For appropriate handling, see section 6 and 7. Inhalation of enzyme dust or aerosols resulting from handling may induce sensitization and may cause allergic reactions in sensitized individuals.

Potential Health Effects:

INHALATION: Inhalation of dust/aerosols may induce sensitization in susceptible individuals. Subsequent exposures may cause allergic reactions in sensitized individuals. Avoid inappropriate handling which may result in aerosol/dust generation.

EYE CONTACT: Non-irritating to the eyes. However, it is recommended that direct contact with the eyes be avoided.

SKIN CONTACT: Non-irritating to the skin. However, it is recommended that prolonged contact with the skin be avoided.

INGESTION: Ingestion of material is not known to cause significant adverse health effects.



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4. FIRST AID MEASURES

Skin Contact: Wash skin with plenty of water.

Eye Contact: Rinse eyes with plenty of water.

Ingestion: Rinse mouth and throat thoroughly with water. Drink water.

Inhalation: Remove from exposure. If symptoms of irritation or sensitization occur (shortness of breath, wheezing or labored coughing), call a doctor.

5. FIRE-FIGHTING MEASURES

Protection against Fire and Explosions: No special requirements

Suitable Fire Extinguishing Media: Water, foam

Non Suitable Media: None

Special Exposure Hazards: None

HMS Rating: Health = 1

Flammability = 1

Reactivity = 0

6. ACCIDENTAL RELEASE MEASURES

Spilled preparation should be removed immediately to avoid formation of dust from dried preparation. Take up by mechanical means preferably by a vacuum cleaner equipped with a high efficiency filter. Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing (avoid formation of aerosols). Ensure sufficient ventilation. Wash contaminated clothing.

7. HANDLING AND STORAGE

Avoid formation of aerosols and dust from drying out of spilled preparation. Avoid splashing and high pressure washing. Ensure good ventilation of the room, when handling this preparation.

STORAGE REQUIREMENTS: Store container in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Maintain good conditions of industrial hygiene. Some processes may require enclosures, local exhaust ventilation, or other engineering controls to control airborne levels. Additional handling and health/safety information is available upon request.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection: Not required under usual conditions of use. However, if exposure potential exists, refer to NIOSH Criteria Guides to determine appropriate unit.

Hand Protection: Impermeable gloves recommended.

Eye Protection: Protective glasses or eye shield

EXPOSURE GUIDELINES:

PEL (OSHA) for enzyme protein: Not established.

TLV (ACGIH) for enzyme protein: Not established

Protection: Wear suitable protective clothing



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber color liquid

Odor, pH, Boiling point, Melting point, Flash point, Ignition temperature, Vapour pressure, Density and Solubility are not relevant to safety.

10. STABILITY AND REACTIVITY

This material is stable under normal conditions of use.

Conditions to Avoid: None

Materials to Avoid: None

Hazardous Decomposition Products: None

11. TOXICOLOGICAL INFORMATION

Inhalation of aerosols or dust resulting from inappropriate handling may induce sensitization and may cause allergic reactions in sensitized individuals. Oral rat LD-50 > 2g/kg b.w. classifies the preparation as "non-toxic".

12. ECOLOGICAL INFORMATION

LC-50(fish) > 100 mg/l, EC-50(daphnia) > 100 mg/l and IC-50(algae) > 100 mg/l, which classifies the preparation as "nondangerous" to the environment. The preparation is biodegradable.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

No special disposal method required, except that in accordance with current local authority regulations.

14. TRANSPORT INFORMATION

SHIPPING INFORMATION:

Not classified as hazardous materials under U.S. Department of Transportation regulations (49 CFR Parts 100-185). Therefore, transport regulations do not apply.

15. REGULATORY INFORMATION

The active ingredient and all components of the enzyme preparation are listed on the TSCA inventory.

Canadian WHMIS: Controlled Product Hazard Class D2 A (respiratory sensitizer). This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

The information contained in this Enzyme Material Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this preparation. The information in this sheet does not represent analytical specifications, for which please refer to our Product Data Sheet.