

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product/Catalog Number(s):				
Overall Description	Part #	Species	Induction Material	Concentration (S9)
Mutazyme™	11-404L	SD Rat	PB/BNF	10%
	11-405L			5%
	11-406L			30%
Product name:		PB/BNF induced Mutazyme™		
Synonyms:		PB/BNF induced lyophilized S9 Mix		
Manufacturer:		Molecular Toxicology Inc.		
Address:		157 Industrial Park Drive, Boone, North Carolina, 28607		
Phone:		828 264 9099 (8:30 – 17:00 EST)		
Fax:		828 264 0103		
Emergency contact (Chemtrec):		Contact 1800-424-9300 (USA) or 703 527 3887 (International) at other times Email: chemtrec@chemtrec.com ; http://www.chemtrec.com/		
Recommended use:		Laboratory, For Research Only		
Restrictions on use:		Not for clinical use		

SECTION 2. HAZARDS IDENTIFICATION

Classification	Not required based on content in mixture
Physical hazards	None known
Health hazards	Inhalation: None Skin: None Eyes: None Ingestion: None
Environmental hazards	See eco-toxicity section 12.
Labeling	Pictogram – none
Signal Word	None
Hazard Statements	None
Precautionary Statements	Wear suitable protective clothing and gloves.
Other hazards	Contains animal protein. May cause sensitization.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures
Description: Mixture of the substances listed below with nonhazardous additions.
Dangerous components: None

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact Rinse eyes and under eyelids for several minutes under running water.

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Skin Contact Wash off immediately with plenty of soap and water and rinse thoroughly.
Ingestion Rinse mouth with plenty of water. If symptoms persist consult a physician.
Inhalation Supply fresh air. Consult a physician in case of breathing difficulties.
Protection of first-aiders Not required

General advice

Consult a physician if symptoms persist.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Not flammable or combustible. Suitable extinguishing media include water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

No further relevant information available.

Advice for firefighters

No further relevant information available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Not required

Environmental precautions

Prevent further leakage or spillage. Do not let product enter drains. Discharge into the environment should be avoided.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

Refer to Sections 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Keep in the original container, kept tightly closed when not in use. Avoid formation of aerosols. Provide appropriate exhaust ventilation at places where aerosols are formed. Store according to product packaging.

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Conditions for safe storage, including any incompatibilities

Storage - Store according to product packaging, tightly sealed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Component does not require monitoring at the workplace.

Monitoring methods

N/A

Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN 166(EU).

Hand Protection

Handle with gloves. Nitrile gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good laboratory practices. Wash and dry hands.

Skin and body protection

Appropriate laboratory work clothing; lab coat recommended.

Respiratory Protection

Not required

Hygiene Measures - Handle in accordance with good industrial hygiene and safety practice. Wash hands, forearms and face thoroughly after handling chemical products. Employ techniques to avoid contamination of clothing. Keep away from food, beverages.

Environmental exposure controls – Ventilated area.

Exposure limits

Permissible Exposure Limits and Threshold Limit Values not specified by OSHA.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Light red/pink, powdery cake (upon receipt)/liquid (once reconstituted)
Auto-ignition temperature	unknown
Boiling point	unknown
Decomposition temperature	unknown
Flammable limits in air	unknown
Flash point	N/A
Formula	mixture
Melting point	N/A
Molecular weight	N/A
Odor threshold	unknown
Osmolality	unknown
pH	unknown
Solubility in water	Freely
Specific gravity	unknown
Vapor density	N/A
Vapor pressure	N/A
Viscosity	N/A

Other information

No further relevant information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive.

Chemical stability

Stable under normal conditions. Decomposition will not occur if used and stored appropriately.

Possibility of hazardous reactions

No hazardous reactions known.

Conditions to avoid

No specific data.

Incompatible materials

No further relevant information available.

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Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Oral LD50

No data available

Inhalation LC50

No data available

Dermal LD50

No data available

Other information on acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No eye irritation

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

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Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation: None

Skin: None

Eyes: None

Ingestion: None

Signs and Symptoms of Exposure

No effects known

Synergistic effects

No data available

Additional Information

RTECS: N/A

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

Not a hazardous material for transportation

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulation/legislation specific for the substance or mixture

OSHA Hazards

Not applicable

SARA 302 Components

Not applicable

SARA 313 Components

Not applicable

SARA 311/312 Hazards

Not applicable

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right To Know Components

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Molecular Toxicology, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See www.moltox.com and/or the invoice or packing slip for additional terms and conditions of sale.