

MATERIAL SAFETY DATA SHEET

<p>CENTRE FOR STANDARDS ADDRESS : HARELBEKESTRAAT 72 9000 GENT BELGIUM</p>

SECTION I : IDENTITY

COMMON NAME	LYSOZYME.HCL FIP STANDARD
CHEMICAL NAME	N-acetylmuramoyldrolase mucopeptide
ORIGIN	hen egg-white
IUB number	3.2.1.17

SECTION II : HAZARDOUS INGREDIENTS

Repeated inhalation of enzyme dust may cause sensitization and will cause allergic type reactions in sensitized individuals.

SECTION III : PHYSICAL DATA

BOILING POINT	n/a
SPECIFIC GRAVITY (H ₂ O = 1)	0.4-0.5
VAPOR PRESSURE (mm Hg)	n/a
PERCENT VOLATILE BY VOLUME (%)	n/a
VAPOR DENSITY (AIR = 1)	n/a
EVAPORATION RATE	n/a
SOLUBLE	very soluble in water
INCOMPATIBILITIES	none known
REACTIVITY IN WATER	n/a
APPEARANCE AND COLOUR	white odourless crystals with sweetish taste
FLASH POINT	n/a
FLAMMABLE LIMITS	LOWER n/a UPPER n/a
EXTINGUISHER MEDIA	water, foam
AUTO-IGNITION TEMPERATURE	n/a

n/a = not applicable

SECTION IV : FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	n/a
EXTINGUISHING MEDIA	Water, foam
SPECIAL FIRE FIGHTING PROCEDURES	As with all fires, evacuate personnel to safe area. Fire-fighters should use self-contained breathing equipment and protective clothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS	As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential build-up of static electricity.
FLAMMABLE LIMITS	LOWER n/a UPPER n/a
STABILITY	() Unstable (x) Stable
CONDITIONS TO AVOID	Material is stable from a safety point of view.
HAZARDOUS DECOMPOSITION PRODUCTS	n/a
HAZARDOUS POLYMERIZATION	() May Occur (x) Will Not Occur

SECTION V : HEALTH HAZARD DATA

TRESHOLD LIMIT VALUE :	No toxic effect (LD > 4000 mg/kg)
EFFECTS OF OVEREXPOSURE :	Subject allergic to eggs may manifest the same reactions to the product
ACUTE	Eye, skin and/or respiratory tract irritation
CHRONIC	Possible hyper sensitization
PRECAUTIONS TO CONSIDER	Persons developing hypersensitivity (anaphylactic) reactions must receive immediate medical attention. Avoid prolonged or repeated contact with skin. Material may be irritating to mucous membranes and respiratory tract. As a general rule, when handling FIP Reference Standards avoid all contact and inhalation of dust, fumes, mist, and/or vapors associated with the material. Keep container tightly closed and use with adequate ventilation; wash thoroughly after handling. Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterized or unknown.

EMERGENCY AND FIRST AID PROCEDURES

- Remove from exposure. Remove contaminated clothing. Persons developing serious hypersensitivity reactions must receive immediate medical attention. Upon eye or skin contact, flush affected area with copious quantities of water. Use general supportive measures. Obtain medical attention. If not breathing give artificial respiration. If breathing is difficult give oxygen.
1. INHALATION
May cause irritation of respiratory tract. Avoid inhalation. Remove to fresh air.
 2. EYES
May cause irritation. Flush with copious quantities of water.
 3. SKIN
May cause irritation. Flush with copious quantities of water.
 4. INGESTION
May cause irritation. Flush out mouth with water.

SECTION VI : SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	Anti-dust mask
VENTILATION	Adequate
PROTECTIVE GLOVES	No
EYE PROTECTION	Yes
OTHER PROTECTIVE CLOTHING OR EQUIPMENT	Protect exposed skin, appropriate laboratory apparel

SECTION VII : SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE	Store in tight container. This material should be handled and stored per label and other instructions to ensure product integrity.
OTHER PRECAUTIONS	Avoid contact with eyes, skin or clothing. Avoid breathing dust or mist. Use with adequate dust control. Wash thoroughly after handling. Wear fresh clothing daily. Wash contaminated clothing before reuse. Do not permit eating, drinking or smoking near material.
STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED	rinse with water
WASTE DISPOSAL METHOD	dissolve in water

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ATTENTION:

**This Product is Sold as a Reference Standard for Use in Chemical Analysis
Not for Human Consumption.**