

MATERIAL SAFETY DATA SHEET

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

SECTION I : IDENTITY

COMMON NAME :	ENDOCELLULASE FIP STANDARD
ORIGIN	aspergillus oryzae
LABELLING :	- Xn (harmful) - R 36/37/38-42/43 (irritating to eyes, respiratory system and skin, may cause sensitisation by inhalation and skin contact) - S 22-24-37 (do not breath dust, avoid contact with skin and wear suitable gloves)

SECTION II : HAZARDOUS INGREDIENTS

Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

SECTION III : PHYSICAL DATA

BOILING POINT	n/a
SPECIFIC GRAVITY (H ₂ O = 1)	n/a
VAPOR PRESSURE (mm Hg)	n/a
PERCENT VOLATILE BY VOLUME (%)	n/a
VAPOR DENSITY (AIR = 1)	n/a
EVAPORATION RATE	n/a
SOLUBLE	slightly soluble
PH	7
REACTIVITY IN WATER	n/a
APPEARANCE AND COLOUR	white powder with characteristic odour
FLASH POINT	n/a
FLAMMABLE LIMITS IN AIR % BY VOLUME	LOWER n/a UPPER n/a
EXTINGUISHER MEDIA	water spray, dry chemical, carbon dioxide or foam as appropriate for surrounding fire and materials
AUTO-IGNITION TEMPERATURE	n/a

n/a = not applicable

SECTION IV : FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	n/a
EXTINGUISHING MEDIA	Water, foam and powder
SPECIAL FIRE FIGHTING AND 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	This material is assumed to be combustible. 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	Not known
HAZARDOUS POLYMERIZATION	() May Occur (x) Will Not Occur

SECTION V : HEALTH HAZARD DATA

TRESHOLD LIMIT VALUE :	LD 50 values are not established (oral, dermal or inhalation)
EFFECTS OF OVEREXPOSURE :	Possible allergic reaction to dust if inhaled, ingested or in contact with skin. Can cause allergic skin reaction, and allergic respiratory reaction.
ACUTE	Eye, skin and/or respiratory tract irritation
CHRONIC	Possible hypersensitization
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.

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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

(SPECIFY TYPE)

Anti-dust mask

VENTILATION

Adequate

LOCAL EXHAUST

Recommended

MECHANICAL (GENERAL)

Recommended

OTHER

n/a

PROTECTIVE GLOVES

Impervious/chemically compatible

EYE PROTECTION

Safety goggles

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 introduction 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**

Wear approved respirator and chemically compatible gloves. Vacuum or sweep up spillage. Avoid dust. Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse. Ventilate area and wash spill site.

WASTE DISPOSAL METHOD

Dispose of waste in accordance with all applicable Federal, State and local laws.

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Not for Human Consumption.**