

**SAFETY DATA SHEET**

**SECTION 1 – IDENTIFICATION**

**Product Identity:** Heparinase III, Lyophilized  
**Part Number:** 60-020, 60-021, 60-030

Manufacturer: IBEX Pharmaceuticals Inc.  
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Product use: Research

**SECTION 2 – HAZARD IDENTIFICATION**

**Emergency overview:** Powder. Will not support burning. Not explosive.

**Potential Health Effects:**

**Skin:** May cause skin irritation  
**Eyes:** May cause irritation or burning sensation  
**Inhalation:** May cause irritation to the respiratory tract  
**Swallowed:** Not known to cause toxic effects  
**Injection:** Not known to cause toxicity with acute exposure, but may produce toxicity with repeated injections.

**Carcinogenicity:** Not determined

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

**CAS No.:** 37290-86-1  
**EC No.** 4.2.2.8

**Systematic name:** Heparitin-sulfate lyase  
**Synonyms:** Heparan sulfate lyase/eliminase, Heparin Lyase III  
Heparitinase I

**Origin:** Recombinant, non-pathogenic microorganism

**Ingredients:** No components need to be disclosed according to the applicable regulations

SECTION 4 – FIRST AID MEASURES

**Skin contact:** Flush with copious amounts of water.  
**Eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.  
**Inhalation:** Supply the victim with fresh air; consult doctor in case of complaints.  
**Swallowing:** Rinse mouth with plenty of water.  
**On all of the above:** Consult a doctor if symptoms develop.

SECTION 5 – FIRE FIGHTING MEASURES

**Suitable extinguishing agents:** Noncombustible.

**Protective equipment:** No special measures required. Prevent contact with skin and eyes

SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Person-related safety precautions:** Prevent contact with skin and eyes. Ventilate area.

**Measures for environmental protection:** No special measures required.

**Measures for cleaning/collecting:** Spilled material should be carefully wiped up and disposed as biomedical waste as per applicable waste disposal regulations. Wash spill site after material pickup is complete.

SECTION 7 – HANDLING AND STORAGE

**Handling**

**Information for safe handling:** Prevent contact with skin and eyes and prevent inhalation and swallowing. No other special precautions are necessary if used correctly.

**Information about protection against explosions and fires:** No special measures required.

**Storage**

**Requirements to be met by storerooms and receptacles:** No special requirements except that product should be stored refrigerated 2 - 8 °C

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None

**Storage class:** None assigned

**Class according to regulation on flammable liquids:** Void

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**General protective and hygienic measures:** The usual precautionary measures for handling chemicals and potentially biohazardous materials should be followed. Use clothing sufficient to avoid skin contact. Safety shower and eye wash should be available in proximity.

**Protection of hands:** Use synthetic water resistant gloves.

**Eye protection:** Use safety glasses.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Physical form:** Lyophilized powder in amber glass vial closed with cap covered with aluminum seal.

**Melting point:** Not applicable

**Boiling point:** Not applicable

**Flash point:** Not applicable

**Flammability:** Product is not flammable

**Danger of explosion:** Not determined

**Solubility:** Heparinase III and ingredients are water soluble

**Organic solvents:** 0 %

**Solids content:** 100 %

SECTION 10 – STABILITY AND REACTIVITY

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous products of decomposition:** No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

**Effects of Acute Exposure:** Low acute toxicity expected following inhalation, ingestion, injection or skin exposure.

The potential eye irritation effects of Heparinase III are unknown and it should be considered to be potentially irritating to the eyes.

**Effects of Chronic Exposure:** Not determined for oral ingestion or skin exposure.

**Development Toxicity:** Not determined

**Reproductive Toxicity:** Not determined

**Carcinogenicity:** Not determined

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:** No data available

SECTION 13 – DISPOSAL INFORMATION

**Waste Disposal:**

Incinerate or bury as a solid in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

**Container Disposal:**

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

SECTION 14 – TRANSPORT INFORMATION

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

SECTION 15 – REGULATORY INFORMATION

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

SECTION 16 – OTHER INFORMATION

**Date of revision:** February 21, 2023

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