

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

Product Identity: Heparinase I, Lyophilized
Part Number: 60-010, 60-012, 60-014, 60-017

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.: 9025-39-2
EC No. 4.2.2.7

Systematic name: Heparin lyase
Synonyms: Heparin eliminase
Heparinase 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 white cake 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 I 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 I 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.

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

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