

Material Safety Data Sheet

Version GHS 4.1
Revision date : 03/20/2018

1 . PRODUCT & COMPANY IDENTIFICATION

Product Name : Insulin Human Recombinant , From Yeast

Product Cat No : I4600

CAS No : 11061-68-0

Manufacturer/Supplier : GenDEPOT LLC

PO Box 454

Barker, Tx 77413

Emergency Phone : 866.417.0078

Fax : 281-579-6876

2 . HAZARD IDENTIFICATION

Emergency Overview

GHS Classification

No hazards are expected from using this product.

This product is not regulated under the United Nations Globally Harmonized System for the Classification and Labeling of Hazardous Chemicals (GHS) 2006 version; European Directive 67/648/EEC; and U.S OSHA 29 CFR 1910.1200 Hazard Communication Standard. Although a (M)SDS is not required, this document is offered as a service to customers who handle or might come in contact with this product and would like guidance.

GHS Label elements, including precautionary statements

Pictogram none

Signal word none

Hazard statement(s) Not Applicable

Precautionary statement(s) none

Hazards not otherwise classified (HNOC) or not covered by GHS

None

3 . COMPOSITION/INFORMATION ON INGREDIENT

Synonyms : Insulin

Cas-No. : 11061-68-0

EC-No. : 234-279-7

No ingredients are hazardous according to OSHA criteria.

No compounds need to be disclosed according to the applicable regulations.

4 . FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact: Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

If swallowed : Never give anything by mouth by an unconscious person. Rinse mouth with water.

Most Important Symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labeling (See section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available.

5 . FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Nature of decomposition products not known.

Advise for fire-fighters: Wear self contained breathing apparatus for fighting if necessary.

Further information: No data available.

6 . ACCIDENTAL RELEASE MEASURES

Personal precaution: Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

Environmental precaution: Do not let product enter drains.

Methods and materials for contaminant and cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections: For disposal see section 13.

7 . HANDLING AND STORAGE

Precaution for safe handling: Provide appropriate

Condition for safe storage, including any incompatibilities: Keep in a dry, cool and well-ventilated place.

Recommended storage temperature: -20°C.

Keep in a dry place.

Specific end use (s): For research use only.

8 . EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits: Contains no substances with occupational exposure limit values.

Engineering measures: Ensure adequate ventilation, especially in confined areas

Personal protective equipment: .

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95(US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Information on basic physical and chemical properties

Appearance	Lyophilized powder
	Color: White
pH	no data available
Melting point	no data available
Freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	no data available
Density	no data available
Water Solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative density	no data available
Odour	no data available
Odor threshold	no data available
Evaporation rate	no data available
Initial boiling point	no data available
Flammability (solid, gas)	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

10 . STABILITY AND REACTIVITY

Reactivity

None known.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available.

Condition to avoid

no data available.

Incompatible materials

Strong acid, Strong bases

Hazardous decomposition products

Other decomposition products - no data available
In the event of fire: see section 5.

11 . TOXICOLOGICAL INFORMATON

Acute Toxicity

LD50 Oral—rat -> 15,000 mg/kg
 Inhalation: no data available
 Dermal: no data available

Skin corrosion/irritation

Conclusive but not sufficient for classification.

Serious eye damage/eye irritation

Conclusive but not sufficient for classification.

Respiratory or skin sensitization

Conclusive but not sufficient for classification.

Germ cell mutagenicity

Mouse
 Liver
 Other mutation test systems

Carcinogenicity

Conclusive but not sufficient for classification.

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 probable, possible or confirmed human carcinogen by AC-GIH.

NTP : 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 NTP.

OSHA : 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 OSHA.

Reproductive toxicity

No data available.

Specific target organ toxicity— single exposure (GHS)

No data available.

Specific target organ toxicity— repeated exposure (GHS)

No data available.

Aspiration hazard

No data available.

Additional information

RTECS : KB4518000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

PBT/vPvB assessment not available as chemical safety assessment not required/ not conducted.

Other adverse effect

no data available

13 . DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Offer surplus and non-recyclable solution to all licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14 . TRANSPORT INFORMATION**DOT-US**

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15 . REGULATORY INFORMATION**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 303 Components

SARA 313: This product does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards.

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

Insulin (human)	CAS-No. 11061-68-0
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New Jersey Right To Know Components

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California Prop. 65 Components :

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

16 . OTHER INFORMATION**HIMS Rating:**

Health hazard : 0

Flammability : 0

Physical hazards: 0

NFPA Rating:

Health hazard : 0

Flammability : 0

Physical hazards: 0

This compound is sold only for research use by personnel familiar with chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and no rubbing eyes with working in the laboratory.

This solution is sold only in microliter quantities for use in life sciences research. No other use is intended. And any other use may involve substantive hazards.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish or legally valid contractual relationship. GenDEPOT LLC, shall not be held liable for any damage resulting from handling of or from with above product. The burden of safe use of this material rests entirely with the user.

Since the conditions of handling, storage and disposal of this material are beyond our control, it is the responsibility of the user to determine whether the material is fit for a particular purpose and/or suitable for the user's method of use or application, and to determine safe conditions for use of the material, and to assume full responsibility for loss, injury and expense arising out of or in connection with the use of material. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE MATERIAL DESCRIBED HEREIN SHALL BE CREATED BY OR INFERRED FROM ANY STATEMENT OR OMISSION FROM THIS MSDS.

Various government agencies and local authorities may have general or specific regulations applicable to the material which may not be covered in this MSDS. It is sole responsibility of the user to examine and confirm for its full compliance with any such regulations.

When the revision of this MSDS is received, please dispose of the old one.

Department issuing MSDS:

GenDEPOT LLC

Safety Department