

# **Material Safety Data Sheet**

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## Section 1 - Product and Company Information

**Product Name Product Number**  Insulin solution from bovine pancreas, 10mg/ml 25 mM HEPES, pH 8.2

Sigma Chemical

**Brand** Company

Sigma-Aldrich 3050 Spruce Street

Address City, State, Zip, Country

SAINT LOUIS, MO 63103 US

Technical Phone:

INSULIN SOLUTION, BOVINE

800-325-5832

800-325-5052

Emergency Phone:

314-776-6555

EC no

## Section 2 - Composition/Information on Ingredient

Substance Name

CAS# 11070-73-8 SARA 313

Annex I Index

Number

234-291-2

Formula

C254H377N65O75S6

Synonyms

### Section 3 - Hazards Identification

**Emergency Overview** 

Caution: Avoid contact and inhalation Possible sensitizer

**HMIS Rating** 

Health: 1

Flammability: 0

Reactivity: 0

**NFPA Rating** 

Health: 1

Flammability: 0

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

## Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**Dermal Exposure** 

In case of contact, immediately wash skin with soap and copious amounts of water.

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## Section 5 - Fire Fighting Measures

Autoignition Temp:

**Extinguishing Media** 

Suitable

Water spray, Carbon dioxide, dry chemical powder, or appropriate foam,

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Specific Hazard(s)

Emits toxic fumes under fire conditions.

## Section 6 - Accidental Release Measures

Methods for Cleaning Up

Absorb on sand or vermioulite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is

### Section 7 - Handling and Storage

Handling

User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing Avoid prolonged or repeated exposure,

Storage

Keep tightly closed. Store at 2-8°C

Special Requirements

Light sensitive.

## Section 8 - Exposure Controls / PPE

**Engineering Controls** 

Safety shower and eye bath. Mechanical exhaust required

Personal Protective Equipment

Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU) Respiratory protection is not required. Where protection is desired, use multipurpose combination (US) or type ABEK (EN 14387) respirator carlridges

Hand

Protective gloves.

Chemical safety goggles.

General Hygiene Measures

Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

Appearance Physical State Liquid

Safety & Environments.

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### Section 10 - Stability and Reactivity

#### Stability

Stable Stable.

Materials to Avoid

Strong oxidizing agents.

#### Hazardous Decomposition Products

**Hazardous Decomposition Products** 

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides

#### Hazardous Polymerization

Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

#### Route of Exposure

Skin Contact

May cause skin irritation

May be harmful if absorbed through the skin.

May cause eye irritation.

May be harmful if inhaled, Material may be irritating to mucous membranes and upper respiratory tract.

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#### Ingestion

May be harmful if swallowed.

#### Sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

#### Signs and Symptoms of Exposure

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

RTECS Number: N/A

## Section 12 - Ecological Information

No data available.

#### Section 13 - Disposal Considerations

## Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a cemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

Proper Shipping Name: None

Non-Hazardous for Transport This substance is considered to be nonhazardous for transport

Non-Hazardous for Air Transport Non-hazardous for air transport.

## Section 15 - Regulatory Information

## US Classification and Label Text

**US Statements** 

Caution: Avoid contact and inhalation. Possible sensitizer.

#### **United States Regulatory Information**

SARA Listed: No

#### Canada Regulatory Information

## WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL: Yes

NDSL: No

#### Section 16 - Other Information

#### Disclaimer

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present stated our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigmaldrich Inc., shall not be held liable for any damage resulting from handling or for contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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Skin Absorption

**Eye Contact** 

Inhalation