

*** MATERIAL SAFETY DATA SHEET ***

SICHUAN HUAMAI TECHNOLOGY CO., LTD

MSDS for rhEGF, 98%

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name: Recombinant Human Epidermal Growth Factor.

Supplier:

SICHUAN HUAMAI TECHNOLOGY CO., LTD

Address: No 8, Ziding Lane, HI-TECH Industrial Development Zone, Chengdu, 610041, China

Tel: +86 28 8514 2578 Fax: +86 28 8514 2568

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component:

Purity by SDS-PAGE: 95% min

Purity by HPLC: 95% min

Activity unit: 1X10E6IU/mg

Components CAS Number Weight % OSHA PEL: OSHA STEL: ACGIH TLV: ACGIH STEL:
Epidermal growth factor 62229-50-9 95-100 NA NA NA NA

3. HAZARDS IDENTIFICATION

Emergency Overview

NFPA Ratings: Health= 2. Flammability= 0 Reactivity= 0 Special=.

Special Definitions: A=Allergen CA=Carcinogen CO=Corrosive F=Flammable H=Harmful

R=Reproductive S=Sensitizer T=Toxic T+=Highly Toxic W=Water Reactive

I=Irritant Ox=Oxidizer PB=Potential Biohazard

Principle routes of exposure: Ingestion, skin and/or eye contact.

Inhalation: None.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin contact: None.

Eye contact: May cause slight irritation.

Sensitization: None.

Medical conditions aggravated by exposure: None known

Additional information: None

Target organ effects: The following chemical(s) have target organ effects:

4. FIRST AID MEASURES

Inhalation: Consult a physician. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin contact: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Ingestion: Call a physician immediately. Do not induce vomiting without medical advice.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Notes to physician: None determined

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO₂, water spray or "alcohol" foam.

Unusual hazards: None known.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Do not let product enter drains.

Methods for cleaning up: Never return spills in original containers for re-use. Soak up with oil absorbent material. Sweep up or vacuum (if powder) or soak up with inert absorbent material (if liquid), then place into a suitable clean, dry, closed container, and label for disposal.

7. HANDLING AND STORAGE

Handling: Protect from contamination. Wear personal protective equipment.

Storage: Keep containers dry and tightly closed to avoid moisture absorption and contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Not applicable.

Personal Protective Equipment

Respiratory protection: Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow the OSHA regulation, 29CFR1910.134. Always use a NIOSH approved respirator when necessary.

Hand protection: Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.

Skin and body protection: Wear appropriate body protection to prevent skin contact.

Eye protection: Wear appropriate eye protection to prevent eye contact.

Hygiene measures: When using, do not eat, drink or smoke. Keep away from food and drink.

Wash hands before breaks and at the end of workday.

Exposure limit(s):None

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point/range: No information available

Melting point/range: Not determined

PH: 7.2±0.2

Physical state: White powder.

Flash point: No information available.

LEL (%): Not determined

UEL (%): Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: None under normal processing.
Hazardous decomposition products: None reasonably foreseeable.
Materials to avoid: No data available.

11. TOXICOLOGICAL INFORMATION

Product number: 1376454 Page 2 of 4
Product name: EPIDERMAL GROWTH FACTOR, HUMAN, RECOMB.
Components EPA-IRIS Oral Reference Dose
(RFD) Information:
EPA-IRIS Inhalation Reference
Concentration (RFC) Information:
NIOSH -
Selected LD50s and LC50s:
Epidermal growth factor = 12600 mg/kg Oral LD50 Mouse > 15 g/kg Oral LD50 Rat
Inhalation: No data available
Skin: No data available
Oral: No data available
Mutagenic effects: No data is available on the product itself
Reproductive toxicity: No data is available on the product itself
Carcinogenic effects:

12. ECOLOGICAL INFORMATION

Bioaccumulation: Not determined
Aquatic toxicity: Not applicable
Ecotoxicity effects:

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

14. TRANSPORT INFORMATION

Is product hazardous to ship?
Proper shipping name: None
UN Number: Not applicable
Hazard class: Not applicable
Subsidiary risk: Not applicable
Packing group: Not applicable
ICAO/IATA
Answer: Suggest transport by air.

Confirmed by:

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