

Safety Data Sheet

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Catalog Number: HZ-1002

Product Name: HumanKine® recombinant human GM-CSF protein

Chemical Name: Not applicable

REACH registration number: No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

Company: Proteintech Group, Inc.

Identification: 5500 Pearl Street, Suite 400

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Phone: 888-478-4522

Emergency telephone number: 312-455-8498, ext 802

2.0 HAZARDOUS IDENTIFICATION

2.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards: Not hazardous

Health hazards: Not Hazardous

Environmental Hazards: Not Hazardous

Additional information: Not applicable

2.2 Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms: None

Signal word: None

Hazard statements: Not applicable

EU Specific Hazard Statements: Not applicable

2.3 Precautionary statements

Prevention: Not applicable

Response: Not applicable

Storage: Not applicable

Disposal: Not applicable

2.4 Other hazards: None

3.0 INGREDIENT COMPOSITION/INFORMATION

3.1 Substances: Not applicable

3.2 Mixtures: This mixture does not contain any substances to be mentioned according to the criteria of section

3.2 of REACH annex II

4.0 FIRST AID MEASURES 3.0 INGREDIENT COMPOSITION/INFORMATION

EYE CONTACT: Flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Then get immediate medical attention.

SKIN CONTACT: Immediately wash with plenty of soap and water for 15 minutes. Remove contaminated clothing.

INHALATION: If inhaled supply fresh air. If breathing becomes difficult call a physician. In case of unconsciousness, place patient on side position for transportation. If not breathing, give artificial respiration.

INGESTION: If swallowed, induce vomiting. Get immediate medical attention. Consult a physician.

Most important symptoms and effects, both acute and delayed: Unknown.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

Advice for emergency responders: For further assistance, contact your local Poison Control Center.

Protection of first-aid responders: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5.0 FIRE FIGHTING MEASURES

Large fires should be fought with water or alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus. As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

6.0 ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment (Section 8.0). Implement appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

Clean up: Sweep up, place in bag and hold for disposal. Ventilate area and wash site after material is picked up. No special environmental precautions required.

7.0 HANDLING AND STORAGE

HANDLING: User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Wear personal protective equipment (Section 8.0).

STORAGE: Suitable: Keep tightly closed. Store at -80oC. Keep in properly labelled containers.

See product data sheet for more information on handling and storage.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: Safety glasses with side-shields.

SKIN PROTECTION: Wear lightweight protective clothing.

HANDS: Wear gloves that cannot be penetrated by chemicals or oil.

INHALATION: Work in fume hood or in areas with adequate ventilation.

ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas. Safety shower and eye bath. Mechanical exhaust required.

EXPOSURE GUIDELINES: Wash thoroughly after handling and prevent product from entering drains.

9.0 CHEMICAL AND PHYSICAL PROPERTIES

PHYSICAL STATE: Solid Lyophilized powder

pH: N/A

BOILING POINT: N/A

MELTING POINT: N/A

DECOMPOSITION TEMP.: N/A

SOLUBILITY: N/A

OXIDIZING PROPERTIES: N/A

FLASH POINT: N/A

WATER CONTENT: N/A

10.0 STABILITY AND REACTIVITY

STABILITY: Non-flammable and Non-explosive. Stable.

CONDITIONS TO AVOID: No information available.

MATERIALS TO AVOID: No information available.

HAZARDOUS DECOMPOSITION: No information available.

HAZARDOUS POLYMERIZATION: Does not spontaneously polymerize.

11.0 TOXICOLOGICAL INFORMATION

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation.

INHALATION: May cause irritation of respiratory tract.

INGESTION: May be harmful if swallowed.

Carcinogenic effects: Not available

Mutagenic effects: Not available

Reproductive toxicity: Not available

STOT – Single exposure: Not available

STOT – Repeated exposure: Not available

Teratogenic effects: Not available

12.0 ECOLOGICAL INFORMATION

ECOTOXICITY EFFECTS: No information available.

BIODEGRADATION: Inherently biodegradable.

BIOACCUMULATION: Does not bioaccumulate.

MOBILITY: No information available.

13.0 DISPOSAL INFORMATION

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14.0 TRANSPORTATION INFORMATION

TRANSPORTATION: DOT/IATA/IMDG

Non-hazardous for any form of transportation.

15.0 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Substances of Very High Concern: None.

Restricted substances under EC 1907/2006, Annex XVII: None.

Substances listed under Annex I of Regulation (EC) No 689/2008: None.

Restricted substances under Annex V of Regulation (EC) No 689/2008: None.

Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC: None.

German Water hazard classes (Wassergefährdungsklassen): Not classified.

Other International Inventories: No information available

Chemical Safety Assessment: No Chemical safety assessment has been carried out.

16.0 OTHER INFORMATION

Reason for revision: Update for EU regulations

Revision number: 01

Revision: 10/02/20

References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

Classification and procedure used to derive the classification for mixtures according to Regulation

(EC)

1272/2008 [CLP]:

Not classified

Disclaimer: For research use only. Not intended for human or animal diagnostic or therapeutic use.

The above information was acquired by diligent search and the recommendations are based on prudent application of professional judgment. All materials and mixtures may present unknown hazards and should be used with caution.

Since the company cannot control the actual methods, volumes, or conditions of use, the company shall not be

held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

The information in this MSDS does not constitute a warranty, expressed or implied, including any implied warranty of merchantability or fitness for any particular purpose.

If you have questions, or require more information, please email proteintech@ptglab.com.

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