

Insulin-like Growth Factor-1

1. Identification

- Product Name: Insulin-like Growth Factor-1
Cat No.: GR005-010, GR005-050, GR005-200
- Recommended use of chemical and restrictions on use:
Use only laboratory purpose, do not use manufacturing medicine, home and other purpose.
- Details of Supplier
Company: Welgene Co., Ltd.,
Address: 693, Namcheon-ro, Namcheon-myeon,
Gyeongsan-si, Gyeongsangbuk-do,
South Korea
Telephone: +82 53-811-7081
- Emergency Phone Number: +82 53-819-7040

2. Hazard Identification

- Classification of the substance or mixture: Not a hazardous substance or mixture according to Globally Harmonized System of Classification and Labelling of Chemicals(GHS)
- GHS label elements, including precautionary statements: none
- Other hazards which do not result in classification: none

3. Composition/Information on Ingredients

- Mixture: Human Insulin-like Growth Factor-1
- Synonym: Human IGF-1
- CAS No.: No data available
- EINECS No.: No data available
- Concentration range: 100 %

4. First-aid measures

- Accident caused by contact with eyes: Rinse immediately with plenty of fresh water at least 15 minutes. Rinse the contact lens before use. If signs/symptoms(rash, itchy etc.), immediately obtain medical attention.
- Accident caused by skin contact: Wash the contaminated area of body with soap and fresh water. If signs/symptoms(rash, itchy etc.), immediately obtain medical attention. Wash contaminated clothing before reuse.
- Accident caused by inhalation: Remove to fresh air immediately. If signs/symptoms continue, get medical attention. If person is not breathing, give artificial respiration.
- Accident caused by ingestion: If conscious, drink plenty of water. If vomited, rinse mouth. If ingested, induce vomiting immediately, as directed by medical personnel. If signs/symptoms continue, get medical attention. Do not give anything by mouth to an unconscious person.
- Indication of immediate medical attention and special treatment needed: No data available

5. Fire-fighting Measures

- Suitable extinguishing media: Use Water mist, Alcohol-resistant foam and dry chemicals or CO₂.
- Specific hazards arising from the chemical: No data available
- Special protective equipment and precautions for fire fighters: Remove container from fire-fighting site, if no risk. Avoid inhale the product or combustion products. Keep away from fire and be upwind. Avoid lowland. In case of

extinguishing fire, have available emergency self-contained breathing apparatus.

6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Keep away from vapor, mist and gas or avoid skin and eyes contact with gas.
- Environmental precautions: Keeping away from drains, surface and ground water.
- Methods and materials for containment and cleaning up: Dispose of this material and its container in a safe way.

7. Handling and storage

- Precautions for safe handling: Keep container closed when not in use.
- Conditions for safe storage, including any incompatibilities: Keep container closed, store in a dry well-ventilated place. Keep container closed after use, do not tilt container to prevent leaking.

8. Exposure controls/personal protection

- Exposure control parameters: No data available
- Appropriate engineering controls: No data available
- Individual protection measures, such as personal protective equipment(PPE)
Respiratory protection: Do not need respiratory protective equipment in normal working environment. Use OV/AG or ABEXK respiratory cartridge to prevent leaking. Use NIOSH approved respiratory protection and respiratory equipment approved under government regulation like EN.
Eye protection: Use NIOSH approved respiratory protection or eye protection equipment approved under government regulation like EN 166.
Hands protection: Wear gloves. Need information for use(IFU) not to touch glove's external in case of use. Dispose contaminated gloves after use according to regulation. Wash and dry hands.
Body protection: Wear impermeable clothing. Use the suitable protective clothing according to concentration & amount of dangerous substance.

9. Physical and chemical properties

- Appearance: Liquid
- Odour: No data available
- Odour threshold: No data available
- pH: No data available
- Melting point/Freezing point: No data available
- Initial boiling point and Boiling range: No data available
- Flash point: No data available
- Evaporation rate: No data available
- Flammability: No data available
- Upper/lower flammability or Explosive limits: No data available
- Vapour pressure: No data available
- Solubility(ies): No data available
- Vapour density: No data available
- Relative density: No data available
- Partition coefficient;n-octanol/water: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available

- Viscosity: No data available
- Molecular weight: No data available

10. Stability and Reactivity

- Chemical stability: It's stable under recommended condition.
- Possibility of hazardous reactions: No data available
- Conditions to avoid: No data available
- Incompatible materials: Avoid add strong oxidizers.
- Hazardous decomposition products
Hazardous decomposition products from fire: No data available
Other hazardous decomposition products: No data available

11. Toxicological information

- Information on the likely routes of exposure
Inhalation: It can be dangerous, if inhale. It can stimulate respiratory organs.
Ingestion: It can be dangerous, if ingest.
Skin: It can be dangerous, in case of skin absorption. It can cause skin stimulation.
Eyes: It can cause eye stimulation.
- Information on toxicological(health) effects
Acute toxicity: No data available
Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Carcinogenicity: No data available
Germ cell mutagenicity: No data available
Reproductive toxicity: No data available
STOST-single exposure: No data available
STOST-repeated exposure: No data available
Aspiration hazard: No data available

12. Ecological information

- Toxicity: No data available
- Persistence and degradability: No data available
- Bioaccumulative potential: No data available
- Mobility in soil: No data available
- Other adverse effects: No data available

13. Disposal considerations

- Disposal method: Disposal of material and its container according to the disposal regulation.

14. Transport information

- UN number
ADR/RID: -
IMDG: -
IATA: -
- UN proper shipping name:
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
- Transport hazard class(es)
ADR/RID: -
IMDG: -
IATA: -
- Packing group(if applicable)
ADR/RID: -
IMDG: -
IATA: -
- Environmental hazards
ADR/RID: no
IMDG Marine pollutant: no

- IATA: no
- Special precautions for user: No data available

15. Regulatory information

- Safety, health and environmental regulations specific for the product: No data available

16. Other information

- References:
- Date of preparation: 2023. 09. 15
- Date of last revision:
- Remark:
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Abbreviation:

CAS: Chemical Abstracts Service
EINECS: European Inventory of Existing Commercial Substances
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association