

Recombinant Human Interleukin-2 (rHu IL-2)

Safety Data Sheet

Version: 4.0

SECTION 1: IDENTIFICATION

Product Name Recombinant Human Interleukin-2 (rHu IL-2)
Product Code AK8223

Recommended use of the chemical and restrictions on use

Identified Uses For research use or further manufacturing use in *ex vivo* cell therapy applications.
Restricted Uses Not intended for direct *in vivo* use or for direct clinical use as a drug, therapeutic, biologic or medical device.

Details of the Responsible Party

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SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Not a hazardous substance or mixture according to 29 CFR 1910.1200 and Regulation (EC) No. 1272/2008.

Label Elements

Not a hazardous substance or mixture according to 29 CFR 1910.1200 and Regulation (EC) No. 1272/2008.

Hazards Not Otherwise Classified

None identified.

Unknown Acute Toxicity (GHS-US/CA)

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

This product contains no substances considered to be hazardous to health at their given concentrations.

Chemical Name	Common Name and Synonyms	CAS Number
Recombinant Human Interleukin-2	rHu IL-2, T-Cell Growth Factor (TCGF)	Not applicable
Sodium dodecyl sulfate	Dodecyl sodium sulfate, Lauryl sulfate sodium salt, SDS, Sodium lauryl sulfate	151-21-3
Mannitol	Mannite	69-65-8
Monosodium phosphate	Anhydrous monosodium phosphate, Sodium dihydrogen phosphate	7558-80-7
Disodium phosphate	Disodium hydrogen phosphate, Sodium hydrogen phosphate	7558-79-4

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SECTION 4: FIRST AID MEASURES

Inhalation

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Seek medical advice if necessary.

Skin Contact

Remove contaminated clothing. Rinse affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Obtain medical attention if irritation develops or persists.

Ingestion

Not expected to be an ingestion hazard under anticipated conditions of normal use of this material. Seek medical advice if necessary.

Most Important Symptoms and Effects Both Acute and Delayed

Not applicable.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Not applicable.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry powder or carbon dioxide as appropriate for surrounding fire and materials.

Unsuitable extinguishing media

No data available.

Specific Hazards Arising From the Substance or Mixture

No information available.

Precautions for Firefighters

Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. See Section 8 for additional information and exposure controls.

Environmental Precautions

See Section 12 for information.

Methods and Materials for Containment and Cleaning Up

Soak up liquid components with inert absorbent material. Sweep up solid components, avoid dust formation. Collect clean-up materials into proper containers for disposal according to local regulations.

Reference to Other Sections

See Sections 8, 12, and 13 for additional information.

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SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Use appropriate personal protective equipment (PPE). No special precautions for handling are required.

Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed in a dry, well-ventilated place and at a temperature of 2–8°C.

Specific End Use(s)

Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls and Control Parameters

The product contains no substances with occupational exposure limit values established by the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL).

Appropriate Engineering Controls

No special engineering controls are anticipated under normal use. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Individual Protection Measures/Personal Protective Equipment (PPE)

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

Use face shield, chemical goggles or safety glasses as tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and Body Protection

The type of protective equipment must be selected according to the concentration, amount of the hazardous substance at the specific workplace and appropriate risk assessment.

Respiratory Protection

Respiratory protection is not required under normal use conditions.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance	White to off-white powder
Odor	Odorless
Odor threshold	No data available
pH	7.0 – 8.0
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability limits	No data available

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Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	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

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

No data available.

Conditions to Avoid

No data available.

Incompatible Materials

No data available.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

There is no data available indicating acute toxicity.

Inhalation Exposure	Not classified based on available information
Ingestion Exposure	Not classified based on available information
Skin Exposure	Not classified based on available information
Eye Exposure	Not classified based on available information
Germ Cell Mutagenicity	Not classified based on available information
Carcinogenicity	Not classified based on available information
Reproductive Toxicity	Not classified based on available information
Specific Target Organ Toxicity (Single Exposure)	Not classified based on available information
Specific Target Organ Toxicity (Repeated Exposure)	Not classified based on available information
Aspiration Hazard	Not classified based on available information

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No data available.

Persistence and Degradability

No data available.

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Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and local, state, and federal regulation. Empty containers may retain product residues. Avoid disposal of material into untreated sewers.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable
Environment Hazards	Not applicable
Special precautions for user	Not applicable
Transport in bulk	Not applicable

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations

SARA 302 Components

Not applicable.

SARA 313 Components

Not applicable.

SARA 311/312 Hazardous Categorization

Acute Health Hazard Sodium dodecyl sulfate (SDS) solution, CAS No.: 151-21-3

State Right-to-Know Components

This product does not contain any chemical components subject to the State Right-to-Know Act.

California Prop. 65 Components

This product does not contain any chemical components subject to Proposition 65.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation 11/14/2022

Other Information This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

The information in this document is based on the present state of our knowledge, is believed to be correct, but does not purport to be all-inclusive. The information should be used as a guide to using the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Akron Bioproducts LLC shall not be held liable for any damage resulting from handling or from contact with the above product.