

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015). Date of Issue: 11/27/2018 Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Name: Recombinant Human Interleukin 18 (rHu IL-18)

Product Code: AK9999

1.2. Recommended use of the chemical and restrictions on use

Identified Uses: For research and development use only.

Restricted Uses: Not for human use.

1.3. Name, Address, and Telephone of the Responsible Party

Akron Biotechnology, LLC 6353 W Rogers Circle, Suite 2 Boca Raton, FL 33487 561-750-6120

www.akronbiotech.com

Email: info@akronbiotech.com

1.4. Emergency Telephone Number

Emergency Number : 561-750-6120

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Not a hazardous substance or mixture.

2.2. Label Elements

Not a hazardous substance or mixture.

2.3. Other Hazards

Not a hazardous substance or mixture.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

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

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SECTION 4: FIRST AID MEASURES

4.1. Description of 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. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion:

Rinse mouth with water. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Not applicable.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Not applicable.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable extinguishing media: Alcohol-resistant foam, dry chemical powder, carbon dioxide, water fog or spray.

Unsuitable extinguishing media: No data available.

5.2. Special Hazards Arising From the Substance or Mixture

No data available.

5.3. Advice for Firefighters

Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Always wear recommended Personal Protective Equipment. Ensure adequate ventilation. See Section 8 for more detail.

6.2. Environmental Precautions

Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and Materials for Containment and Cleaning Up

Soak up liquid components with inert absorbent material.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Use appropriate personal protective equipment (PPE). Avoid contact with skin and eyes.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed in a cool, well-ventilated place. Recommended storage temperature is -2-8°C.

7.3. Specific End Use(s)

Not Applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

The product contains no substances with occupational exposure limit values from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

8.2. Exposure Controls

Appropriate Engineering Controls:

Handle in accordance with good laboratory and safety practice.

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.

Eve Protection:

Use face shield, chemical goggles or safety glasses 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. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls:

Do not let product enter drains.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

White, powder **Appearance** Odor Not available Odor threshold Not available Not available pН Melting point/freezing point Not available Boiling point/boiling range Not available Flash point Not available Evaporation rate Not available Flammability (solid, gas) Not available Lower flammable limit Not available Upper flammable limit Not available Vapor pressure Not available Relative vapor density at 20°C Not available Relative density Not available Solubility Not available Partition coefficient: N-Octanol/Water Not available Auto-ignition temperature Not available Viscosity Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see Section 7).

10.3. Possibility of Hazardous Reactions

No data available.

10.4. Conditions to Avoid

Avoid moisture, the product is hygroscopic.

10.5. Incompatible Materials

No data available.

10.6. Hazardous Decomposition Products

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

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

There is no data available indicating acute toxicity.

Not classified Inhalation Exposure Not classified Ingestion Exposure Skin Exposure Not classified Eve Exposure Not classified Germ Cell Mutagenicity Not classified Carcinogenicity Not classified Reproductive Toxicity Not classified Specific Target Organ Toxicity (Single Exposure) Not classified Specific Target Organ Toxicity (Repeated Exposure) : Not classified Aspiration Hazard Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. Ecotoxicity

No data available.

12.2. Persistence and Degradability

No data available.

12.3. Bioaccumulative Potential

No data available.

12.4. Mobility in Soil

No data available.

12.5. Other Adverse Effects

Do not release material and cleaning waters into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Treatment of waste per local authority regulations. Empty containers may retain product residues. Avoid disposal of material into untreated sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional, national and local authority requirements.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

UN number : No data available
UN proper shipping name : No data available
Transport hazard class : No data available
Packing group : No data available
Environment Hazards : No data available
Special precautions for user : No data available
Transport in bulk : No data available

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SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

SARA 302 Components

This product does not contain any chemical components subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This product does not contain any chemical components subject to the reporting requirements of SARA Title III, Section 313.

SARA 311/312 Hazardous Categorization

Acute Health Hazard : No data available
Chronic Health Hazard : No data available
Fire Hazard : No data available
Sudden Release of Pressure Hazard : No data available
Reactive Hazard : No data available

Reactive Hazard : No data available

15.2. US Federal Regulations

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 or Latest Revision: 11/27/2018

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 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 based on the present state of 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. Akron Biotechnology, LLC shall not be held liable for any damage resulting from handling or from contact with the above product.

NA GHS SDS 2015 (Can, US, Mex)